Saskatchewan
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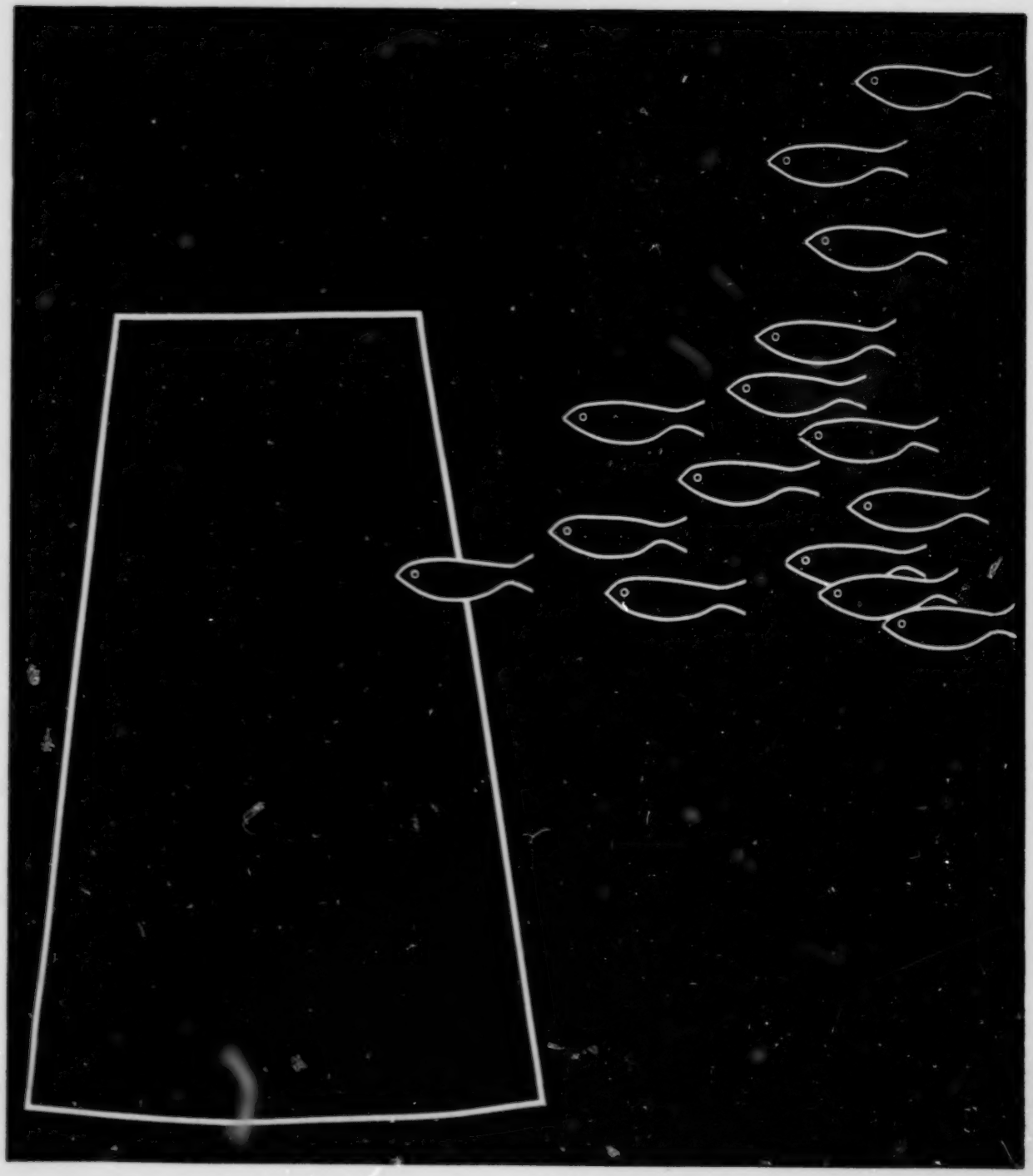
1980 Survey of Sport Fishing In Saskatchewan

Saskatchewan



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1980 SURVEY OF SPORTFISHING IN SASKATCHEWAN

A.R. Murray
Fisheries Branch
Department of Parks
and Renewable Resources
La Ronge, Saskatchewan

R.P. Johnson
Fisheries Branch
Department of Parks
and Renewable Resources
Regina, Saskatchewan

K.W. Brickley
Economic Policy Branch
Department of Fisheries and
Oceans
Ottawa, Ontario

A.L.W. Tuomi
Economic Policy Branch
Department of Fisheries
and Oceans
Ottawa, Ontario

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EXECUTIVE SUMMARY

The sport fishery in Saskatchewan was examined by means of questionnaires sent to a sample of licensed anglers who had fished there in 1980. This study, the second in a series carried out at five year intervals, was conducted to provide information on the numbers, origins, and destinations of anglers, their expenditures and investments in activities and equipment used for fishing, as well as the numbers and kinds of fish harvested and amount of fishing effort expended. Respondents also provided comments about fishing quality, hospitality, services, enforcement of regulations and problems.

Angler Profile

There were 216,373 licensed anglers in Saskatchewan in 1980. Of these, 166,843 were residents of the province and tne remainder were Canadian and other nonresidents. About 80% of the residents, and 96% of the non-residents fished. More than 53% of the resident anglers came from rural areas of the province. Almost 61% of the nonresident anglers were Canadians, mainly from Alberta and Manitoba; most of the remaining nonresident anglers were United States citizens, mainly from those states directly south of the province.

The province was subdivided into seven areas for the purposes of the survey. Resident anglers tended to fish in the southern half of the province and nonresident anglers in the northern half. Moreover, there was a difference between residents and nonresidents in their selection of areas: almost 60% of residents, 85% of nonresident Canadians and 94% of other nonresidents fished in one area only. Overall, residents fished in as many as six areas, nonresident Canadians in four and other nonresidents in three.

The use of accommodations appears to reflect the origins of nonresident anglers. Approximately 37% of Canadians and 7% of non-Canadians stayed with friends and relatives; 32% of Canadians and 13% of non-Canadians stayed in tents or trailers; and, 12% of Canadians and 60% of non-Canadians stayed at fishing lodges or camps.

The household income profile of resident and nonresident anglers is different. About 43% of resident anglers had household incomes under $20,000, 31% between $20,000 and $29,999, and the remaining 26% over $30,000. In contrast, 17% of nonresident Canadians had incomes less than $20,000, 29% between $20,000 and $29,999, and 54% over $30,000; 17% of other nonresidents had incomes less than $20,000, 32% between $20,000 and $29,999, and 51% over $30,000.

Fishing Effort

Angling in Saskatchewan is a major recreational activity. Anglers fished a total of about 2.1 million days in 1980, or 11.4 days per angler. Resident anglers fished an average of 13.3 days, nonresident Canadians fished 6.1 days, and other nonresidents fished 6.3 days.

Most fishing occurred during the summer period May through September. During that time, 84% of resident, 93% of nonresident Canadians, and 97% of other nonresidents fishing effort was expended.

Harvest

Angling is a fishery of major dimensions and importance. In 1980, licensed anglers caught an estimated 8.0 million fish of all species and retained 5.5 million of these which weighed an estimated 5 million kilograms, or 11 million pounds. Pike, perch and walleye, in that order, comprised 94% of the harvest by number. Resident anglers caught 81% of the fish harvested.

Anglers in Saskatchewan kept slightly more than 30 fish each, of which 11 were northern pike, 9 were perch and 9 were walleye. Resident anglers preferred walleye, northern pike and perch respectively but they retained, in decreasing order of quantity, northern pike, perch and walleye. Nonresident Canadians preferred and retained, in order of quantity, walleye, northern pike and perch. Other nonresidents preferred northern pike, walleye, and lake trout and retained, in decreasing quantity, walleye, northern pike and perch.

Angler Satisfaction

Resident anglers tended to have a less positive view of the quality of fishing, hospitality, services and accommodation than nonresidents. Residents gave good to excellent ratings for fishing quality in 64% of the cases; for hospitality, 89%; for services, 52%; and for accommodation, 58%. In contrast, nonresidents gave good to excellent ratings for fishing quality in 83% of the cases; for hospitality, 95%; for services, 75%; and for accommodation, 82%. Residents gave good to excellent ratings for environmental quality in 53% of the cases but only in 31% of the cases for enforcement of regulations. In contrast, nonresidents gave good to excellent ratings for environmental quality in 92% of the cases and in 56% of the cases for enforcement of regulations.

Expenditures and Investments

In 1980, anglers spent $41.9 million in Saskatchewan on activities directly associated with sportfishing. Residents spent a total of $27.5 million, which represents an average of $206 per angler. Nonresident Canadians spent $4.5 million, an average of $161 per angler. Other nonresidents spent $9.8 million, an average of $510 per angler. The average expenditure for all active anglers was $231.

Anglers invested $61.5 million on major durables and property, of which 46%, or $28 million, was attributed to sportfishing activities. Virtually all of these investments were made by residents. The average investments of residents was $367, nonresident Canadians, $9, and other nonresidents less than a dollar.

A special category of investment reflects resident boat ownership, without regard to year of purchase. The 1980 market value of the 56,193 boats reported was $119.8 million. Outboards were most popular followed by canoes. Outboards accounted for 70% of the market value of all boats and were used for 75% of all boat-days of fishing.

Conclusions

The results of the 1980 survey of sportfishing in Saskatchewan confirm that it is an important economic component of the natural resource sector in the province. Four measures of that component are reported herein. First, it is estimated that anglers spent $41.9 million on activities directly associated with fishing. These were monies spent on accommodation, food, travel, bait, licences, etc. Second, anglers invested $61.5 million on major durables and property of which $28 million was used for sportfishing. In all, anglers spent and invested over $103 million in 1980, of which $70.9 million was wholly attributable to sportfishing within Saskatchewan. In most other reports on sportfishing, both annual expenditures and angler investments are lumped together and called "gross" expenditures. The two are separated herein so the importance of each within the economy can be better understood and assessed.

Economists generally agree that the first round of expenditures in most segments of the business world do not adequately reflect the full impact of spending such as described above. As the money circulates into associated businesses, the economic effect increases by a factor of 1.5 or greater. On this basis, the direct economic impact of sportfishing within the Saskatchewan economy was about $106 million in 1980.

The third measure, boat ownership and use, provides further light on angler investments. Resident anglers reported they owned more than 56,000 boats with a 1980 market value of $119.8 million. These were used 44% of the time for sportfishing. This means that anglers "allocated" $52.7 million of their investment in boats for sportfishing in 1980.

The fourth measure concerns the fishing effort and harvest. Overall, there has been little change in angling activities within Saskatchewan since 1975. Although the total number of licensed anglers increased 10% to 216,373, the number who fished was about 2,000 fewer than in 1975. The number of days fished remained practically unchanged at about two million. The total harvest increased slightly to 5.5 million fish, primarily because of increased catches of walleye and perch.

In conclusion, the 1980 survey indicated that angling in Saskatchewan constituted a fishery of major proportions. More than 228,000 anglers fished, and of these, more than 171,000 were residents of Saskatchewan. This means that almost one Saskatchewan resident in five fished in 1980. Anglers fished a total of 2.1 million days, or about 11 days per person in 1980, and they harvested 5.5 million fish of all species weighing 5 million kilograms, or 11 million pounds. In 1980, anglers spent $41.9 million on activities directly associated with sportfishing and invested $61.5 million on major durables and property used in whole or in part for sportfishing.

INTRODUCTION

In 1980, a survey of sportfishing in Saskatchewan was conducted to provide basic information on the importance of this fishery, to the public, anglers, and the sportfishing industry as well as to fisheries management agencies. The survey was conducted by the Fisheries Branch of the Saskatchewan Department of Tourism and Renewable Resources and the Fisheries Division of the Department of Northern Saskatchewan in co-operation with the Economic Policy Branch of the Department of Fisheries and Oceans of Canada.

The 1980 survey is the second in a series which will be carried out at five year intervals. The results of the first survey were reported in a publication entitled, "1975 Survey of Sportfishing in Saskatchewan". Both surveys were part of a nationally-coordinated study conducted by all of Canada's provincial and territorial sport fisheries agencies and several regional offices of the federal Department of Fisheries and Oceans. Thus not only does this report provide a basic understanding of the provincial sport fishery in 1980, it also makes an important contribution to an understanding of the national sport fishery.

SURVEY BACKGROUND

In 1970, representatives of Canadian fisheries agencies started to meet on a regular basis to discuss matters of common concern. At these meetings, now termed the Canadian Sport Fisheries Conferences, there was continuing agreement that effective management requires a framework of basic information regarding the size, value, socio-economic performance and potential of Canada's sport fisheries. The size of this task was realized from the outset; no comprehensive information existed and partial coverage from the only previous survey, conducted in 1961, indicated that millions of Canadians and hundreds of millions of dollars were involved.

It was also realized that the development and publication of sportfishing data were required on a regular basis, and that all sport fisheries agencies must work together to provide such information. Plans made at the 1972 and 1974 conferences were implemented in January 1976 when thirteen provincial, territorial and federal sport fisheries agencies launched the first nationally-coordinated set of surveys. Some 50,000 questionnaires which asked anglers about their fishing activities for the calender year 1975 were mailed. The response was gratifying: 60% of the anglers from across Canada provided information for survey publications.

The success of the 1975 survey led to the development of the 1980 study. These surveys were successful in two important ways. First, they provided Canadians with the first authoritative data on the magnitude and importance of Canada's sport fisheries. Second, they demonstrated that, despite regional differences, consistent and comparable data can be generated from a common group of questions.

A total of 2,950 questionnaires were sent to persons who had purchased angling licences in Saskatchewan in 1980, and 1,585 (54%) were completed and returned to provide the basis for the information given in the report. After extrapolating information from these returns, gathering related information on known licence numbers, comparing estimates and holding discussions with the fisheries management personnel, an overall description of sportfishing in the province was developed. Additional details regarding methods are contained in Appendix B. The questionnaires used in the 1980 survey are reproduced in Appendix C.

THE RESOURCE BASE

There are sixty-five species of fish available in Saskatchewan, of which 13 are of interest to anglers. The main species taken are pike, walleye and perch. Six species of trout plus Arctic grayling are also pursued by anglers seeking a variety of fishing experiences. Goldeye, sturgeon and whitefish are among the rarer treats for adventuresome anglers. Overall, walleye is the most preferred species in Saskatchewan.

The fish resource of Saskatchewan is found in its lakes, streams and reservoirs. There are more than 94,000 lakes in the province with a total surface area in excess of 67,000 square kilometers. Most lakes are very small. The larger lakes, although few in number, contain more than half the surface water area. Most of the larger lakes, and many of the small ones, support sport fisheries.

There is a marked difference in the distribution of lakes and streams and the people who utilize them: more than 97% of the people live south of the 54th parallel whereas more than 90% of the lakes and streams are north of this line. Many northern lakes are accessible only by aircraft. Those that are accessible by road are especially attractive to anglers because of their wilderness settings.

ANGLER PROFILE

Numbers

A total of 216,373 anglers held fishing licences in Saskatchewan in 1980 (Table 1). Not all of these fished: an estimated 35,031 anglers who bought licences did not fish. The overall estimated number of anglers who actually fished dropped by almost 15,000 from 1975 (Appendix A, Table A1). There was also a decline in the number of anglers under the age of 16. Possible reasons for this situation are that fishing costs had increased markedly from 1975 and that there were relatively fewer young people in the population in 1980.

A total of 166,843 Saskatchewan residents, or 23% of the province's population over 15 years of age, held Saskatchewan angling licences in 1980 (Table 1). The total number of Saskatchewan residents of all ages who were active in 1980 was 171,846 or 18% of the province's population. Three-quarters of the licensed active resident anglers were male. Approximately 21% of the anglers were under 16 years of age.

TABLE 1. Numbers and characteristics of anglers in Saskatchewan in 1980.

Characteristics	Resident of Province	Nonresident Canadian	Nonresident Other	Total
Licenced angling population	166,843[a]	30,046[a]	19,484	216,373
Estimated nonactive anglers	32,997	1,782	252	35,031
Estimated active anglers	133,846	28,264	19,232	181,342
Males	100,962	24,290	17,361	142,613
Average age, years	41	38	45	41
Females	32,884	3,974	1,871	38,729
Average age, years	40	40	44	40
Estimated anglers under 16 years of age[b]	38,000	6,630	2,493	47,123
Total estimated active anglers of all ages	**171,846**	**34,894**	**21,725**	**228,465**

[a] Saskatchewan and other Canadian angling licences are identical. The number of Canadians other than Saskatchewan residents was estimated from a sample of 4,627 licences in 1980; 83.4% of the licencees were Saskatchewan residents.

[b] Minimum estimate since only households of licensed anglers were surveyed.

Origins

There were an estimated 228,465 active anglers of all ages in Saskatchewan in 1980 (Table 1). Of these, 75% were Saskatchewan residents, 15% were Canadians from other provinces, and 10% were residents of other countries (mainly the United States).

More than half the resident anglers were from the rural areas of Saskatchewan (Table 2). About 75% of the urban anglers came from four cities, namely, Saskatoon, Regina, Prince Albert and Moose Jaw, which are located in the West Central, South and East Central areas of the province (Figure 1). In 1980, there were large increases in the numbers of anglers from Moose Jaw, Prince Albert, North Battleford and Yorkton over 1975 (Appendix A, Table A2). The proportion of resident anglers coming from urban areas increased from 40% in 1975 to almost 47% in 1980. An average of 80% of those who purchased angling licences in 1980 actually fished (Table 3).

More than 30,000 Canadians from other provinces fished in Saskatchewan in 1980 (Figure 2, Table 4). More than half of these came from Alberta, 28% were from Manitoba, 11% from British Columbia, and 7% from Ontario and Quebec. As in 1975, no residents of the Atlantic Provinces fished in Saskatchewan in 1980.

More than 19,000 United States residents fished in Saskatchewan in 1980 and over half of these came from the West North Central region (Table 4, Figure 3). As in 1975, they came from all areas of the United States except the New England region. Large increases over 1975 came from the Mountain and West South Central regions (Appendix A, Table A3).

TABLE 2. Numbers of licensed resident anglers and their places of residence within Saskatchewan, 1980.

Areas	City/Town	Number	Percentage
Urban			
N. Central	La Ronge	982	0.6
W. Central	Saskatoon	20,251	12.1
	North Battleford	4,477	2.7
	Battleford	683	0.4
	Lloydminster	819	0.5
South	Regina	13,603	8.1
	Moose Jaw	11,622	7.0
	Swift Current	2,157	1.3
	Yorkton	6,052	3.6
	Estevan	1,474	0.9
	Weyburn	610	0.4
E. Central	Prince Albert	13,276	8.0
Qu'Appelle	Melville	2,140	1.3
Urban Total		**78,146**	**46.8**
Rural			
North		8,517	5.1
N. Central		7,069	4.2
W. Central		17,819	10.1
South		35,889	21.5
Tobin Lake		3,139	1.9
E. Central		9,182	5.5
Qu'appelle		7,082	4.2
Rural Total		**88,697**	**53.2**
GRAND TOTAL		**166,843**	**100.0**

Figure 1. Estimated number of anglers by area of residence, 1980.

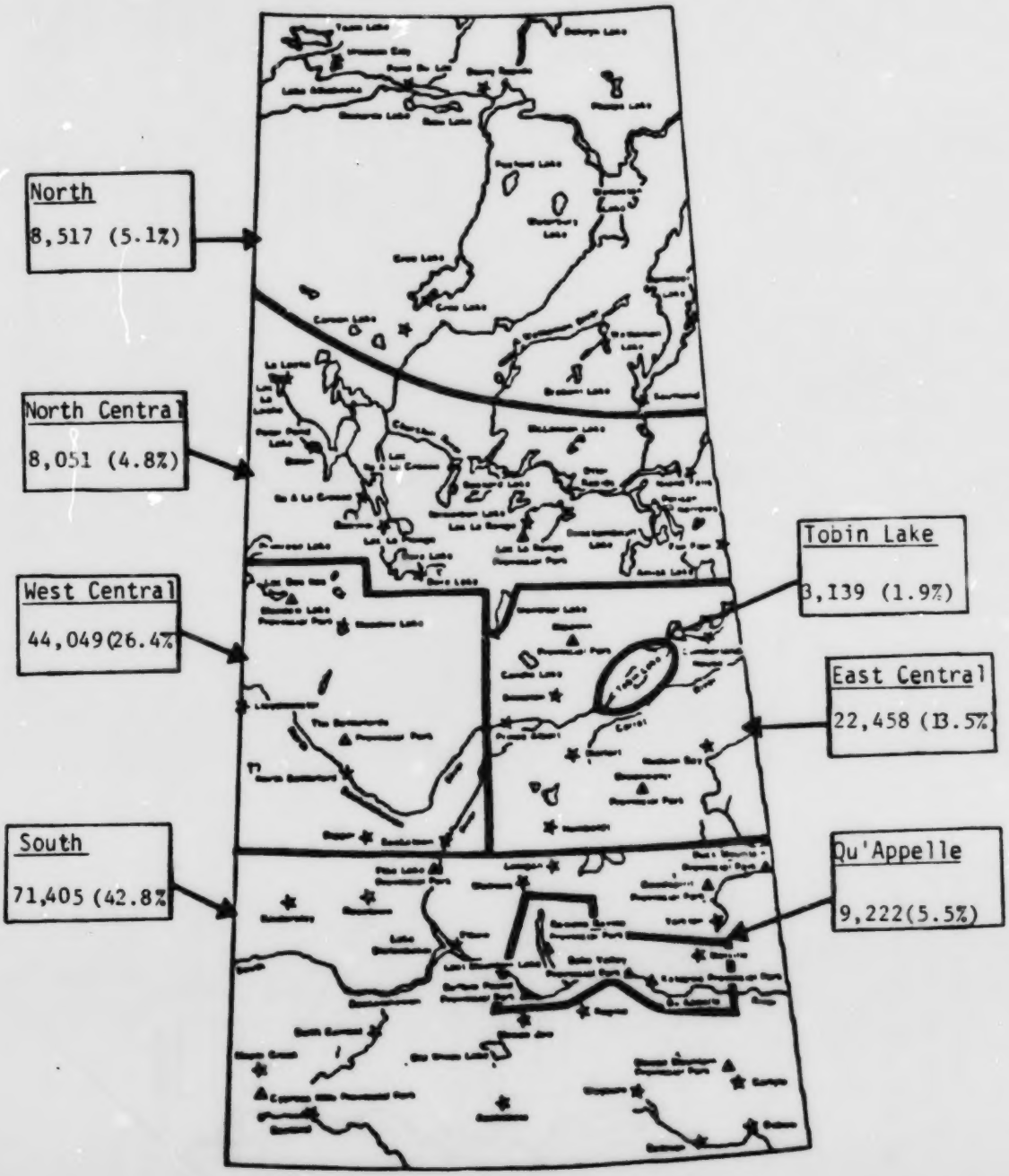
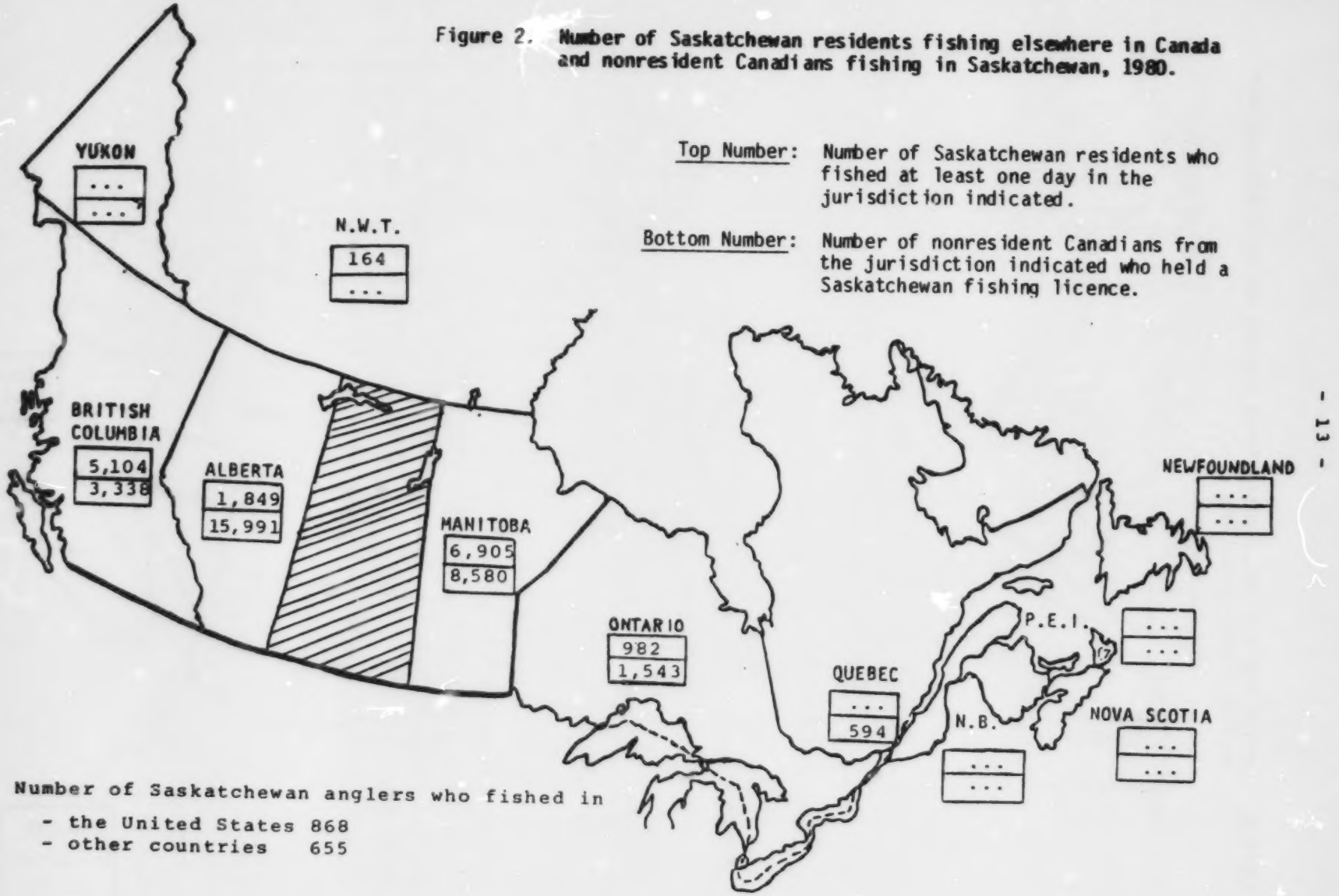


TABLE 3. Resident angling licence distribution and use in 1980.

Area	Issued		Used	
	no.	%	no.	%
North	8,517	5.1	6,131	72.0
North Central	8,051	4.8	7,486	93.0
West Central	44,049	26.4	36,808	83.6
South	71,407	42.8	55,825	78.2
Tobin Lake	3,139	1.9	2,811	89.6
East Central	22,458	13.5	17,522	78.0
Qu'Appelle	9,222	5.5	7,263	78.8
TOTAL	**166,843**	**100.0**	**133,846**	**80.2**

Figure 2. **Number of Saskatchewan residents fishing elsewhere in Canada and nonresident Canadians fishing in Saskatchewan, 1980.**



Top Number: Number of Saskatchewan residents who fished at least one day in the jurisdiction indicated.

Bottom Number: Number of nonresident Canadians from the jurisdiction indicated who held a Saskatchewan fishing licence.

Number of Saskatchewan anglers who fished in

- the United States 868
- other countries 655

TABLE 4. Origin and numbers of nonresident anglers who held Saskatchewan angling licences in 1980.

Province/State Group	Number	Proportion of Total
Canadian (see Fig. 2)		%
Quebec	594	1.2
Ontario	1,543	3.1
Manitoba	8,580	17.3
Alberta	15,991	32.3
British Columbia	3,338	6.7
Canadian Total	**30,046**	**60.7**
Non-Canadian (see Fig. 3)		
Mid Atlantic, U.S.A.	199	0.4
East North Central, U.S.A.	1,536	3.1
West North Central, U.S.A.	10,129	20.5
Mountain, U.S.A.	4,710	9.5
Pacific, U.S.A.	724	1.5
South Atlantic, U.S.A.	266	0.5
East South Central, U.S.A.	266	0.5
West South Central, U.S.A.	1,550	3.1
Other countries	104	0.2
Non-Canadian Total	**19,484**	**39.3**
GRAND TOTAL	**49,530**	**100.0**

Figure 3. Regional distribution and numbers of United States Residents who held Saskatchewan angling licences in 1980.

Motivations

The tradition for fishing in Saskatchewan is strong (Table 5): in 1980, 62.2% of all resident anglers reported they had also fished in 1979, and 44.9% of them had also fished in 1975. There was more turnover among nonresident anglers but the pattern was similar: in 1980, about 43% reported they had fished in 1979, and about 28% had also fished in Saskatchewan in 1975.

Almost three-quarters of the nonresident anglers reported that sportfishing was the primary reason for their travel to Saskatchewan (Table 6). Nonresident Canadians indicated that about 69% of their trips to Saskatchewan were primarily for fishing whereas other nonresidents stated that 89% of their trips were for this purpose. Another 14% reported angling as a secondary reason and the remaining 13% indicated that their angling was decided after their arrival.

About 94% of nonresident anglers reinforced the preceding idea by saying they planned to return to Saskatchewan to fish again in the future (Table 7), however 43% indicated they would not come back if sportfishing was no longer available (Table 8). About 81% of nonresident anglers rated the fishing they had experienced as good to excellent (Table 9).

Nonresident Canadians tended to stay with friends and relatives or in tents and trailers (Table 10). Only a small proportion of them stayed at fishing lodges whereas about 60% of other nonresidents utilized this type of accommodation.

Income Profile

There were marked differences in the annual household incomes among the three groups of anglers who fished in Saskatchewan in 1980 (Table 11). Most resident anglers indicated that their annual incomes were between $10,000 and $29,999. In contrast, most nonresident anglers reported their annual incomes to be between $20,000 and $39,999. A significant proportion of non-Canadian anglers reported annual incomes in excess of $40,000.

TABLE 5. Fishing activity in Saskatchewan by active anglers who held Saskatchewan angling licences in the previous five years.

Year	Resident	Nonresident		Total
		Canadian	Other	
No. of licences issued in 1980	166,843	30,046	19,484	216,373
No. who fished in 1980	133,846	28,264	19,232	181,342
% active	80.2	94.1	98.7	83.8
No. of 1980 anglers who fished in 1979	103,853	13,661	7,913	125,427
% of 1980	62.2	45.5	40.6	58.0
No. of 1980 anglers who fished in 1978	98,731	13,364	6,755	118,850
% of 1980	59.2	44.5	34.7	54.9
No. of 1980 anglers who fished in 1977	87,891	11,091	5,182	104,164
% of 1980	52.7	36.9	26.6	48.1
No. of 1980 anglers who fished in 1976	79,834	9,904	5,153	94,891
% of 1980	47.8	33.0	26.4	43.9
No. of 1980 anglers who fished in 1975	74,851	9,013	4,680	88,544
% of 1980	44.9	30.0	24.0	40.9

TABLE 6. Fishing trip motivation for nonresident anglers in Saskatchewan, 1980.

	Canadian		Other		Total	
	no.	%	no.	%	no.	%
Main reason	55,638	69.1	20,397	88.9	76,035	73.5
Secondary reason	12,041	14.9	1,964	8.6	14,005	13.5
Decided upon after arrival	12,854	16.0	576	2.5	13,430	13.0
TOTAL[a]	**80,533**	**100.0**	**22,937**	**100.0**	**103,470**	**100.0**

[a] Totals differ from the actual number of licences issued: information is based on the total number of fishing trips made to Saskatchewan by nonresident anglers in 1980.

TABLE 7. Projected future participation by nonresident anglers in Saskatchewan in 1980.

Response	Canadian		Other		Total	
	no.	%	no.	%	no.	%
Yes	26,631	92.8	18,309	96.2	44,940	94.1
No	2,079	7.2	716	3.8	2,795	5.9
TOTAL[a]	28,709	100.0	19,025	100.0	47,735	100.0

TABLE 8. Nonresident visit alternatives if there had been no fishing opportunities in Saskatchewan in 1980.

Variable	Canadian		Other		Total	
	no.	%	no.	%	no.	%
Stayed a shorter time	4,558	17.0	2,259	12.0	6,817	15.0
Substituted other activities	15,881	59.3	3,124	16.6	19,005	41.7
Not come at all	6,340	23.7	13,458	71.4	19,797	43.3
TOTAL[a]	26,779	100.0	18,841	100.0	45,619	100.0

TABLE 9. Nonresident views of their fishing experiences in Saskatchewan in 1980.

Ratings	Canadian		Other		Total	
	no.	%	no.	%	no.	%
Excellent	4,067	14.6	8,209	43.4	12,276	26.2
Very Good	5,998	21.4	5,382	28.5	11,380	24.3
Good	10,123	36.2	3,980	21.0	14,103	30.1
Fair	5,152	18.4	901	4.8	6,053	12.9
Poor	2,628	9.4	436	2.3	3,064	6.5
TOTAL[a]	27,968	100.0	18,908	100.0	46,876	100.0

[a] Totals differ from the actual number of licences issued: information is based on only those who answered the question.

TABLE 10. Type of accommodation used by nonresident anglers in Saskatchewan in 1980.

Type	Canadian		Other		Total	
	no.	%	no.	%	no.	%
Friends & Relatives	11,756	36.8	1,485	6.5	13,241	24.2
Tent or Trailer	10,226	32.0	2,924	12.8	13,150	24.0
Fishing lodge or camp	3,861	12.1	13,679	59.9	17,540	32.0
Other commercial lodging	2,731	8.5	3,515	15.4	6,246	11.4
Other	3,370	10.6	1,241	5.4	4,611	8.4
TOTAL[a]	**31,944**	**100.0**	**22,844**	**100.0**	**54,788**	**100.0**

[a] Totals differ from the actual number of licences issued: some respondents indicated more than one type of accommodation.

TABLE 11. Household income profile of anglers who fished in Saskatchewan in 1980.

Income Bracket	Resident	Nonresident	
		Canadian	Other
$	%	%	%
Under 10,000	15.6	4.5	1.8
10,000 - 19,999	27.3	12.3	15.6
20,000 - 29,999	30.8	29.4	32.3
30,000 - 39,999	14.7	43.6	22.2
Over 40,000	11.6	10.2	28.1
TOTAL	**100.0**	**100.0**	**100.0**

Summary

The typical Saskatchewan angler is a male of about 40 years of age, relatively affluent, with a high likelihood of coming from the South or the West Central area who probably fished during the previous five years. There is a 50% chance this angler comes from an urban centre.

The composite image of a Canadian nonresident angler is a male, about 38 years old, from the western part of the country, more affluent than resident anglers, strongly attracted to fishing in Saskatchewan, yet can appreciate non-fishing recreational opportunities. Many fished in Saskatchewan before; most stayed with relatives or friends, or in tents or trailers.

The non-Canadian nonresident angler is a prosperous male in his mid-forties from the central United States of America whose primary reason for coming to Saskatchewan is sportfishing. Most stayed at fishing camps and lodges in the northern half of the province.

ANGLER FISHING EFFORT AND HARVEST

Fishing Effort

Anglers fished an estimated 2,071,685 days in Saskatchewan in 1980 (Table 12), almost unchanged from the 2,018,252 angler days reported for 1975 (Appendix A, Table A4). In all, about 86% of the angling took place during the five month period May to September. July was the most popular month for residents and June for nonresidents. Residents, who accounted for 86% of all angling activity, fished an average of 13.3 days, whereas nonresidents averaged 6.2 days. No estimate of effort could be made for anglers under 16 years of age.

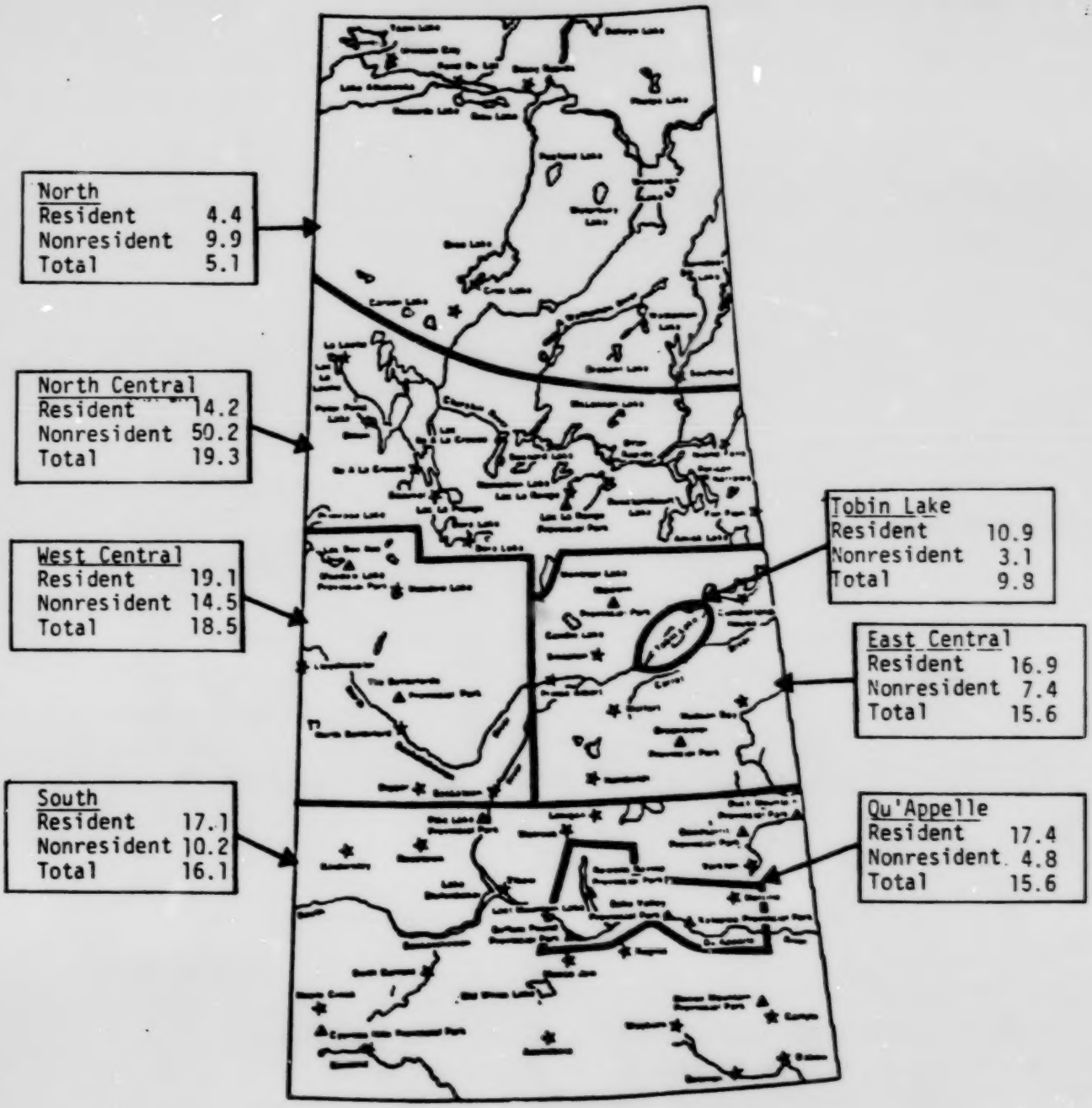
Fishing Areas

The North and North Central areas of Saskatchewan continued to be the prime attraction for nonresident anglers with 60% of their angling effort occurring there (Figure 4). As in 1975, most residents fished in the southern half of the province, with over 80% of their fishing activities occurring there.

TABLE 12. Numbers of angler-days expended by licensed anglers in Saskatchewan in each month, 1980.

Month	Resident	Nonresident		Total
		Canadian	Other	
January	48,509	1,200	465	50,174
February	42,417	1,512	465	44,394
March	46,980	900	266	48,146
April	27,062	451	399	27,912
May	172,053	13,164	9,364	194,581
June	327,838	38,159	60,537	426,534
July	505,176	64,319	19,160	588,655
August	340,764	34,850	15,157	390,771
September	150,343	9,915	12,902	173,160
October	51,172	4,505	1,419	57,096
November	19,010	1,951	332	21,293
December	47,052	1,651	266	48,969
ANNUAL TOTAL	**1,778,376**	**172,577**	**120,732**	**2,071,685**
Average/angler	13.3	6.1	6.3	11.4

Figure 4. Percentage of angler-days expended by anglers in each fishing area of Saskatchewan in 1980.



In general, most resident anglers fished in only one area (Table 13) and that area tended to be the place where they lived (Table 14). Residents of the North area, for example, spent about 55% of their angler-days there and 45% in other areas of the province. In contrast, residents of the South area spent 63% of their angler-days in the South and Qu'Appelle areas but only 11% of their angler-days in the North and North Central areas. Some residents fished in all six areas whereas nonresidents fished in a maximum of three or four. Similar conclusions were reached in 1975.

TABLE 13. Number of areas fished by anglers in Saskatchewan, 1980.

	Resident	Nonresident	
		Canadian	Other
	%	%	%
Fished one area only	68.9	85.3	94.4
Fished two areas	23.5	12.6	4.9
Fished three areas	6.0	1.1	0.7
Fished four areas	1.4	1.0	0
Fished five areas	0.1	0	0
Fished six areas	0.1	0	0
TOTAL	**100.0**	**100.0**	**100.0**

Most Saskatchewan residents who fished outside the province in 1980 did so in Manitoba and in British Columbia (Figure 2). As in 1975, no Saskatchewan residents fished east of Ontario in 1980. Some residents also fished on the Great Lakes as well as in four of Canada's national parks (Table 15). Prince Albert National Park was most favoured by residents. More residents fished elsewhere in North America in 1980 than in 1975. The number who fished in the United States and in other countries was double 1975 estimates.

TABLE 14. Fishing effort expended by resident anglers from each area of Saskatchewan expressed as a percentage of the angler-days spent in each area in 1980.

Area of Residence	Area Fished							
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	Total
North	**54.7**	9.4	1.7	3.7	0.5	5.0	25.0	100.0
North Central	3.2	**51.5**	17.3	10.0	1.7	16.3	0.0	100.0
West Central	2.0	18.1	**52.8**	2.4	4.4	18.5	1.8	100.0
South	1.2	9.4	7.6	**33.5**	7.9	11.0	29.4	100.0
Tobin Lake	0.0	6.6	7.1	13.9	**61.0**	11.1	0.3	100.0
East Central	2.1	11.5	7.1	3.0	33.5	**41.3**	1.5	100.0
Qu'Appelle	0.4	11.4	5.4	10.6	2.8	4.9	**64.5**	100.0

TABLE 15. Numbers of angler-days expended by resident anglers who fished on the Great Lakes and in Canadian national parks in 1980.

Lake/Park	Days Fished
Lake Huron	819
Jasper, Alberta	491
Prince Albert, Saskatchewan	8,677
Kootenay, British Columbia	164
Gros Morne, Newfoundland	327
TOTAL	**10,578**

Harvest

In 1980, anglers in Saskatchewan caught an estimated 8.0 million fish of all species (Table 16), of which they retained 5.5 million (Table 17), weighing about 5 million kg (Table 18). Saskatchewan anglers kept over 75% of their catches, whereas nonresident Canadians kept 57% and other nonresidents kept 44%. The number kept in 1980 was only slightly larger than that reported in 1975 (Appendix A, Table A5).

The total harvest of fish in Saskatchewan is considerably greater than the 5.5 million indicated because it does not include fish taken by anglers under 16 years of age. Underage anglers comprise 21% of the estimated total anglers and their harvest would substantially increase the total harvest. There is, however, no way of estimating this harvest from available data.

Pike, perch and walleye, in that order, comprised 94% of the harvest (Table 17, Figure 5). Resident anglers caught 81% of the fish harvested by licensed anglers. Harvest of all species in 1980 was about 1% more than in 1975 (Appendix A, Table A5). There were increased harvests of walleye and perch over 1975 which contributed to the increased harvest of 1980 and more than compensated for the decreased harvests of species such as pike, lake trout, rainbow trout, grayling and brook trout.

In 1980, the average catch per angler-day for all species by resident anglers and by nonresident Canadians was similar but about half that of the other nonresident anglers (Table 19). Overall, the three major species (pike, perch and walleye) provided somewhat less than one fish of each species per angler-day. There was considerable variation within these averages. For example, the average catch of walleye to Saskatchewan residents was 0.65 fish per angler-day, but was about twice this to Canadian anglers and almost four times this to other anglers. The average catch of all species per angler-day in 1980 was the same as that reported in 1975 (Appendix A, Table A5).

TABLE 16. Numbers of fish caught by licensed anglers in Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	2,260,983	360,732	676,026	3,297,741
Walleye	1,439,080	250,545	468,098	2,157,723
Perch	1,801,439	188,618	69,684	2,059,741
Lake trout	119,593	29,549	73,287	222,429
Rainbow trout	53,294	12,770	1,160	67,224
Goldeye	57,338	742	1,181	59,261
Brook trout	53,918	2,079	0	55,997
Lake whitefish	23,344	2,227	1,992	27,563
Splake	20,063	2,078	0	22,141
Grayling	4,574	17,819	22,338	44,731
Kokanee	3,286	0	0	3,286
Brown trout	2,362	0	0	2,362
Other species	26,072	148	332	26,552
ALL SPECIES	**5,865,346**	**867,307**	**1,314,098**	**8,046,751**

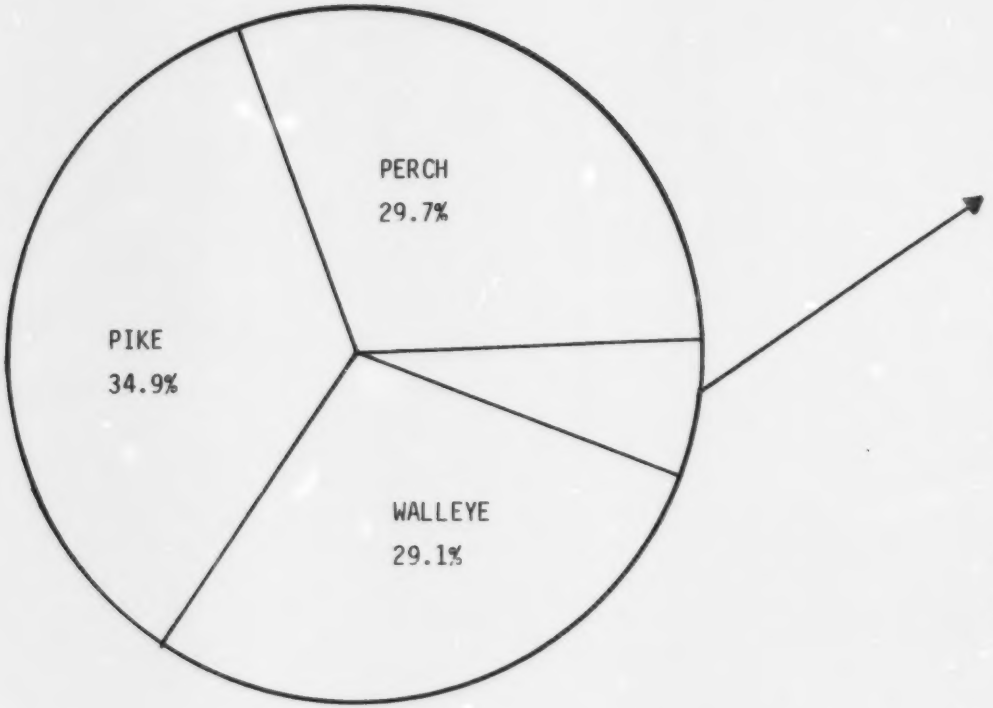
TABLE 17. Numbers of fish retained by licensed anglers in Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	1,533,851	162,506	226,533	1,922,890
Walleye	1,158,302	193,867	250,745	1,602,914
Perch	1,472,158	108,344	53,971	1,634,473
Lake trout	93,447	12,176	39,096	144,719
Rainbow trout	41,506	11,582	1,160	54,248
Goldeye	40,968	594	716	42,278
Brook trout	25,278	1,336	0	26,614
Lake whitefish	21,544	2,227	1,328	25,099
Splake	19,245	2,078	0	21,323
Grayling	3,849	891	3,806	8,546
Kokanee	2,930	0	0	2,930
Brown trout	1,895	0	0	1,895
Other species	17,353	0	0	17,353
ALL SPECIES	**4,432,326**	**495,601**	**577,355**	**5,505,282**

TABLE 18. Estimated weight of fish of the major species retained by licensed anglers in Saskatchewan in 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
	kg	kg	kg	kg
Pike	2,014,239	282,568	393,899	2,690,706
Walleye	1,079,802	199,483	258,008	1,537,293
Perch	327,200	24,080	11,996	363,276
Lake trout	183,958	23,969	76,964	284,891
Rainbow trout	49,514	13,817	1,384	64,715
Goldeye	13,937	202	244	14,383
Brook trout	11,997	634	0	12,631
Grayling	2,112	489	2,089	4,690
ALL SPECIES	**3,682,759**	**545,242**	**744,584**	**4,972,585**

Figure 5: Proportion of fish caught and retained by active licensed anglers in Saskatchewan, 1980.



OTHER SPECIES	
Lake trout	2.6%
Rainbow trout	1.0%
Goldeye	0.8%
Brook trout	0.5%
Lake whitefish	0.5%
Splake	0.4%
Arctic grayling	0.1%
Kokanee	0.1%
Others	0.3%
TOTAL	6.3%

TABLE 19. The average numbers of fish retained per angler-day in Saskatchewan in 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	0.86	0.94	1.88	0.93
Walleye	0.65	1.12	2.08	0.77
Perch	0.83	0.63	0.45	0.79
Lake trout	0.05	0.07	0.32	0.07
Rainbow trout	0.02	0.07	0.01	0.03
Goldeye	0.02	0.01	0.01	0.02
Brook trout	0.01	0.01	0	0.01
Lake whitefish	0.01	0.01	0.01	0.01
Splake	0.01	0.01	0	0.01
Grayling	*	0.01	0.03	*
Other species	0.01	*	0.01	0.01
ALL SPECIES	**2.48**	**2.88**	**4.80**	**2.65**

* less than 0.01

TABLE 20. The average numbers of fish retained during the season by resident and nonresident anglers over 15 years of age in Saskatchewan in 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	11.5	5.7	11.7	10.6
Walleye	8.7	6.9	13.0	8.8
Perch	11.0	3.8	2.8	9.0
Lake trout	0.7	0.4	2.0	0.8
Rainbow trout	0.3	0.4	0.1	0.3
Goldeye	0.3	0.1	0.1	0.2
Brook trout	0.2	0.1	0	0.1
Lake whitefish	0.2	0.1	0.1	0.2
Splake	0.1	0.1	0	0.1
Grayling	0.1	0.1	0.2	0.1
Other species	0.2	0	0.1	0.2
ALL SPECIES	**33.3**	**17.7**	**30.1**	**30.4**

On average, each angler over 15 years of age caught and retained 30 fish in 1980 (Table 20). Each resident angler kept 33 fish; nonresident Canadians kept 18; and, other nonresidents kept 30 fish.

Stocked Trout

The province of Saskatchewan supports an active and successful program aimed at establishing and maintaining stocks of game trout (i.e., species which are not native to Saskatchewan) in about 120 lakes and streams. In 1980, 13,495 resident and 2,597 nonresident anglers fished these waters and harvested 107,010 rainbow trout, brook trout, brown trout, splake and kokanee (Table 17). On average, each angler who fished these waters in 1980 kept about 7 fish (Table 21). Rainbow trout were favoured and comprised 51% of the harvest in stocked waters.

Preferences

Walleye and northern pike were most preferred by all anglers in Saskatchewan in 1980 (Table 22). Perch were third in importance for Canadian anglers whereas lake trout were third in importance to other nonresident anglers. Although residents preferred walleye, they actually harvested more pike (Table 17). The opposite was true for other nonresident anglers: they preferred northern pike (Table 22) but actually harvested more walleye (Table 17).

Consumption

In 1980, anglers kept about 5 million kilograms of fish (Tables 18 and 23). Anglers indicated that they ate over 4.2 million kg of the fish they caught. About 86% of the catch was consumed by the anglers' households, about 12% was given to others, and a fraction was used in other ways.

TABLE 21. The average number of fish retained by anglers who fished stocked trout waters in Saskatchewan, 1980.

Stocked Species	Resident	Nonresident	Total
Rainbow trout	3.1	4.9	3.4
Brook trout	1.9	0.5	1.7
Brown trout	0.1	0	0.1
Splake trout	1.4	0.1	1.2
Kokanee	0.2	0	0.2
ALL SPECIES	**6.7**	**5.5**	**6.6**

TABLE 22. Species preferred by anglers in Saskatchewan, 1980.

Species Preference	Resident	Nonresident	
		Canadian	Other
1.	Walleye	Walleye	Northern pike
2.	Northern pike	Northern pike	Walleye
3.	Perch	Perch	Lake trout
4.	Trout (general)	Rainbow trout	Trout (general)
5.	Lake trout	Lake trout	Grayling
6.	Rainbow trout	Trout (general)	Perch
7.	Brook trout	Brook trout	Rainbow trout
8.	Lake whitefish	Kokanee	Brook trout
9.	Splake	Splake	Kokanee
10.	Goldeye	Brown trout	Brown trout

TABLE 23. Disposition of fish caught by anglers in Saskatchewan in 1980.

	Resident	Nonresident		Total
		Canadian	Other	
Total fish weight (kg)	3,682,759	545,242	744,584	4,972,585
% eaten	86.9	85.5	80.8	86.0
% given away	11.4	13.1	15.4	12.1
% other uses	1.7	1.4	3.0	1.9
Weight eaten (kg)	3,200,318	466,182	601,624	4,268,124

ANGLER EXPENDITURES AND INVESTMENTS

Expenditures

Anglers spent $41.9 million on activities directly associated with sportfishing in Saskatchewan in 1980 (Table 24). Resident anglers spent $27.5 million, or $206 per angler; nonresident Canadians spent $4.5 million within the province, or $161 per angler; and other nonresidents spent $9.8 million within the province, or $510 per angler. Overall, anglers spent 19% more for sportfishing in Saskatchewan in 1980 than in 1975 (Appendix A, Table A6). Average expenditures per angler increased 20% to $231. Expenditures by resident anglers were 14% greater and nonresident expenditures were 31% greater in 1980 than in 1975.

Costs of travel and food accounted for 53% of the annual expenditures by resident anglers (Table 24). These items also formed a significant proportion of nonresident expenses, and include costs incurred under the heading of "package trips".

Fly-in operations to northern waters were most popular among "package trips" comprising 61% of the total costs (Table 25). Nonresident anglers utilized package trips more than residents, spending $4.5 million, or 84% of the total.

Investments

Anglers invested $61.5 million in 1980 on major durables and property used in whole or in part for sportfishing (Table 26). Almost all of the major purchases were made by residents, with boating equipment and special vehicles comprising 85% of the outlay.

The amount invested by anglers on major durables and property was about 9% greater in 1980 than in 1975 (Appendix A, Table A7). Although the totals were similar there were major differences in the items comprising them. For example, the very large increases in investments for fishing gear, boats and special vehicles in 1980, were compensated by the very large decreases in investments for cottages, land and campers.

TABLE 24. Direct expenditures by anglers in Saskatchewan in 1980.

Expenditure Category	Resident	Nonresident		Total
		Canadian	Other	
	$	$	$	$
Travel costs	8,190,611	996,467	1,268,300	10,455,378
Food	6,397,456	1,177,345	1,059,845	8,634,646
Package trips	863,405	574,581	3,931,666	5,369,652
Fishing supplies	3,457,436	338,719	319,981	4,116,136
Lodging	2,207,838	598,302	1,200,860	4,007,000
Household boat costs	2,633,563	182,401	182,565	2,998,529
Boat rentals	1,137,818	218,477	324,416	1,680,711
Campsite fees	1,137,573	175,167	163,522	1,476,262
Fishing licences	746,735	151,191	220,535	1,118,461
Bait	276,916	43,681	42,933	363,530
Guide services	79,962	27,522	214,532	322,016
Other	409,819	59,396	869,605	1,338,820
TOTAL	**27,539,132**	**4,543,249**	**9,798,760**	**41,881,141**
Average/angler	205.75	160.74	509.50	230.95
No. of active anglers	133,846	28,264	19,232	181,342

TABLE 25. Costs to anglers' households of "package trips" to Saskatchewan in 1980.

Type	Resident	Nonresident	Total
	$	$	$
Fly-in	588,053	2,673,373	3,261,426
Lodge	112,151	1,004,564	1,116,715
All-inclusive	126,090	556,892	682,982
Fishing package	26,196	237,732	263,928
Outfitter	10,915	13,284	24,199
Charter boat	...	20,402	20,402
TOTAL	**863,405**	**4,506,247**	**5,369,652**

TABLE 26. Major angler purchases and investments attributable in whole or in part to angling within Saskatchewan in 1980.

Expenditure Category	Resident	Nonresident		Total
		Canadian	Other	
	$	$	$	$
Boats, motors and related equipment	31,720,140	125,424	4,105	31,849,669
Special vehicles	20,211,724	...	...	20,211,724
Campers and related equipment	5,845,606	109,214	4,318	5,959,138
Cottages and land	1,023,275	...	...	1,023,275
Fishing gear	736,701	16,017	4,850	757,568
Other Items	1,708,460	14,849	1,162	1,724,471
TOTAL	**61,245,906**	**265,504**	**14,435**	**61,525,845**
Proportion allocated to sportfishing (%)	45.5	39.9	72.6	45.4
Total dollars invested in fishing	27,848,842	106,053	10,486	27,965,381
Average/angler	367.02	8.81	0.78	284.30

Anglers were asked to indicate the relative amount of time each of their investments was used for sportfishing in 1980. Some items, such as fishing gear, were wholly attributable to sportfishing, whereas others, such as boats, were only partly used for this. Overall, anglers indicated that about $28 million, or 46% of the $61.5 million invested was used for sportfishing purposes (Table 26).

Boat Ownership and Use

Resident anglers owned 56,193 boats in 1980 with a market value of $119.8 million (Table 27). Almost two-thirds of them were outboards, which were used about 50% of the time for fishing (Table 28). There were 4,481 more boats in Saskatchewan in 1980 than in 1975 (Appendix A, Table A8). The total value of all boats was about $42 million more in 1980 than in 1975, an increase of about 54%. In general, boats were used less for fishing and more for recreation in 1980 than in 1975.

TABLE 27. Resident angler boat ownership information, Saskatchewan, 1980.

Boat Type	Number		1980 Market Value		Average Value
		%	$	%	$
Canoe	11,754	20.9	7,226,709	6.0	620
Rowboat	2,371	4.2	903,717	0.8	380
Outboard	36,252	64.5	84,253,131	70.3	2,320
Sailboat	928	1.7	1,893,058	1.6	2,100
Inboard-outboard	2,029	3.6	14,690,218	12.3	7,350
Inboard	578	1.0	4,855,511	4.0	8,090
Houseboat	164	0.3	1,719,101	1.4	8,600
Other	2,117	3.8	4,301,928	3.6	2,040
TOTAL	**56,193**	**100.0**	**119,843,373**	**100.0**	**2,130**

TABLE 28. Use of boats by resident anglers in Saskatchewan, 1980.

Boat Type	Days All Recreation	Days Fishing	Fishing as a proportion of Recreation Days %
Canoe	177,550	66,878	37.7
Rowboat	41,874	24,704	59.0
Outboard	755,504	368,957	49.0
Sailboat	14,104	1,842	13.1
Inboard-outboard	59,264	8,956	15.1
Inboard	34,410	4,230	12.3
Houseboat	3,029	3,028	100.0
Other	34,450	15,008	43.6
TOTAL	**1,120,185**	**493,603**	**44.1**

ANGLER COMMENTS

In addition to answering a series of specific questions aimed at eliciting information about expenditures and investments as well as fishing effort and harvest, anglers were asked to provide comments. A total of 654 respondents did so, with a total of 1,296 comments on subjects which dealt with the quality of fishing, hospitality, problems, regulations, and so on (Table 29). More than a third of the resident, and more than half the nonresident respondents provided about two comments per questionnaire.

Most of the comments - almost 27% - concerned the quality of fishing (Table 29). Resident anglers were more critical, with 29% indicating it was very poor or poor whereas only 22% of the nonresident anglers indicated this (Table 30). In contrast, 64% of the resident and 83% of the nonresident anglers indicated the fishing quality was good or excellent.

About 21% of the comments were concerned with hospitality, services and accommodation. A little more than half the comments were made by nonresident anglers (Table 29). Resident anglers were more critical with 31% of their comments indicating these services were very poor or poor (Table 31). Only 8% of nonresidents indicated this whereas 87% of them indicated these services were good to excellent.

About 12% of the comments were concerned with problems. About 72% of these comments were made by resident anglers (Table 29). About 40% of the comments of all anglers indicated that the quality of fishing had deteriorated as a result of a pollution, road construction, dams, nets, numbers of fishermen, etc. (Table 32). Another large group (38%) were concerned about the number of fishermen of all types. About equal numbers of respondents were concerned about vandalism, garbage, etc., as well as the nature of regulations and penalties.

Comments about regulations comprised 8% of the remarks and 55% of them were made by resident anglers (Table 29). Most of these were suggestions for, as well as concerns about, bag limits, closed seasons and areas, fish size, checks at the Canada - United States border, and so on (Table 33).

There were almost as many comments about environmental quality as about regulations; about 54% of them were made by nonresidents (Table 29). Comments of resident anglers expressed concern (44%) as well as satisfaction (54%); comments of nonresident anglers were almost entirely praiseworthy (Table 34).

Most of the comments about stocking were made by resident anglers (Table 29) and were primarily requests and suggestions.

The quality of enforcement was a concern of only 4% of those who supplied comments (Table 29). Resident anglers supplied 60% of these and they were more critical than nonresident anglers about enforcement (Table 35): 51% of the residents and 43% of the nonresidents stated enforcement was very poor or poor. In contrast, 56% of the nonresident comments, and 31% of the resident comments stated enforcement was good-excellent.

About 3% of the comments were concerned about a lack of awareness regarding fishing regulations, handling and releasing fish, travel information, fishing techniques, and so on (Table 29). The remaining 162 comments in Table 28 touched a wide variety of concerns to the respondents. All comments and suggestions, whether critical or laudatory, have been carefully considered by the appropriate management agencies and corrective action taken where possible.

In summary, more than a third of the resident and more than half the nonresident respondents provided comments on the quality of fishing, hospitality, accommodation, environment, regulations, enforcement and so on. In general, residents were more critical of these factors than nonresidents, but the number of good to excellent comments by both groups of anglers were greater than their critical ones. About 20% of the comments expressed concern about deteriorating fishing quality, number of fishermen, vandalism, regulations and penalties.

TABLE 29. Numbers and categories of comments made by respondents to Saskatchewan angling questionnaire, 1980. See text for additional details.

Category of Comments	Resident	Nonresident	Total
Fishing quality	184	165	349
Hospitality, services and accommodation	122	145	267
Problems	113	45	158
Regulations	57	47	104
Environmental quality	43	50	93
Stocking	56	6	62
Enforcement	35	23	58
Awareness	18	25	43
Other comments	94	68	162
TOTAL	**722**	**574**	**1,296**
Number of respondents who returned questionnaires	1,072	513	1,585
Number of respondents who provided comments	372	282	654
Proportion of questionnaires with comments	34.7%	55.0%	41.3%
Number of comments per questionnaire	1.9	2.1	2.0

TABLE 30. Numbers and types of comments regarding quality of fishing made by respondents to Saskatchewan angling questionnaire, 1980.

Comments	Fishing Quality					
	Very Poor	Poor	Fair	Good	Excellent	Total
Residents	14	39	13	64	54	184
Nonresidents	2	20	6	37	100	165
TOTAL	**16**	**59**	**19**	**101**	**154**	**349**

TABLE 31. Numbers and types of comments regarding hospitality, services and accommodation made by respondents to Saskatchewan angling questionnaire, 1980.

Comment	Quality					
	Very Poor	Poor	Fair	Good	Excellent	Total
Hospitality						
Residents	2	1	0	7	18	28
Nonresidents	0	3	1	9	61	74
Total	**2**	**4**	**1**	**16**	**79**	**102**
Services						
Residents	6	4	3	6	8	27
Nonresidents	1	1	3	6	9	20
Total	**7**	**5**	**6**	**12**	**17**	**47**
Accommodation						
Residents	15	10	3	13	26	67
Nonresidents	2	4	3	10	32	51
Total	**17**	**14**	**6**	**23**	**58**	**118**
Total						
Residents	23	15	6	26	52	122
Nonresidents	3	8	7	25	102	145
Total	**26**	**23**	**13**	**51**	**154**	**267**

TABLE 32. Numbers and types of comments regarding problems and concerns of respondents to Saskatchewan angling questionnaire, 1980.

Type of Problem	Resident	Nonresident	Total
Fishing quality deteriorating through pollution, road construction, dams, nets, numbers of fishermen etc.	48	16	64
Too many commercial fishermen, anglers, ice fishermen, natives, U.S. fishermen, etc.	42	18	60
Vandalism, garbage, drinking, etc.	10	8	18
Regulations not strict enough and penalties not severe enough.	13	3	16
TOTAL	**113**	**45**	**158**

TABLE 33. Numbers and types of comments regarding regulations by respondents to Saskatchewan angling questionnaire, 1980.

Comment	Resident	Nonresident	Total
Regulations concerning bag limits, closed areas and seasons, size of fish, border checks, etc.	43	37	80
Regulations concerning fees and numbers of fishermen	8	5	13
Regulations concerning campgrounds live bait, 1-day licences, purple gas, control and pets, etc.	6	5	11
TOTAL	**57**	**47**	**104**

TABLE 34. Numbers and types of comments regarding environmental quality made by respondents to Saskatchewan angling questionnaire, 1980.

	Environmental Quality					
	Very Poor	Poor	Fair	Good	Excellent	Total
Residents	7	12	1	6	17	43
Nonresidents	1	3	0	8	38	50
TOTAL	**8**	**15**	**1**	**14**	**55**	**93**

TABLE 35. Numbers and types of comments concerning quality of enforcement made by respondents to Saskatchewan angling questionnaire, 1980.

	Quality of Enforcement					
	Very Poor	Poor	Fair	Good	Excellent	Total
Residents	5	13	6	4	7	35
Nonresidents	3	7	0	6	7	23
TOTAL	**8**	**20**	**6**	**10**	**14**	**58**

SUMMARY

The results of the 1980 survey of sportfishing in Saskatchewan confirm that it is an important economic component of the natural resource sector in the province. Four measures of that component are reported herein. First, it is estimated that anglers spent $41.9 million on activities directly associated with fishing. These were monies spent on accommodation, food, travel, bait, licences, etc. Second, anglers invested $61.5 million on major durables and property of which $28 million was used for sportfishing. In all, anglers spent and invested over $103 million in 1980, of which $70.9 million was wholly attributable to sportfishing within Saskatchewan. In most other reports on sportfishing, both annual expenditures and angler investments are lumped together and called "gross" expenditures. The two are separated herein so the importance of each within the economy can be better understood and assessed.

Economists generally agree that the first round of expenditures in most segments of the business world do not adequately reflect the full impact of spending such as described above. As the money circulates into associated businesses, the economic effect increases by a factor of 1.5 or greater. On this basis, the direct economic impact of sportfishing within the Saskatchewan economy was about $106 million in 1980.

The third measure, boat ownership and use, provides further light on angler investments. Resident anglers reported they owned more than 56,000 boats with a 1980 market value of $119.8 million. These were used 44% of the time for sportfishing. This means that anglers "allocated" $52.7 million of their investment in boats for sportfishing in 1980.

The fourth measure concerns the fishing effort and harvest. Overall, there has been little change in angling activities within Saskatchewan since 1975. Although the total number of licensed anglers increased 10% to 216,373, the number who fished was about 2,000 fewer than in 1975. The number of days fished remained practically unchanged at about two million. The total harvest increased slightly to 5.5 million fish, primarily because of increased catches of walleye and perch.

The 1980 survey of sportfishing in Saskatchewan has one major deficiency, namely, the amount anglers would pay for the right to fish. Sooner or later any serious attempt to determine the economic value of the sport fishery requires the estimation of this value. The amount paid by anglers for fishing licences, $1.1 million, is the only measure of this right in this survey. It is probable, however, that the right to fish in Saskatchewan would be worth substantially more to anglers than what they currently pay in licence fees.

APPENDIX A

COMPARISON OF RESULTS OF 1975 AND 1980 SURVEYS

TABLE A1. Comparison of the number and characteristics of anglers who fished in Saskatchewan in 1975 and 1980.

Characteristics	Resident			Nonresident			Total		
	1975	1980	% change	1975	1980	% change	1975	1980	% change
Angler Population (Licensed)	153,700	166,843	+8.6	43,878	49,530	+12.9	197,578	216,373	+9.5
Estimated Nonactive Anglers	13,490	32,997	+144.6	893	2,034	+127.8	14,383	35,031	+143.6
Estimated Active Anglers	140,212	133,846	-4.5	42,985	47,496	+10.5	183,197	181,342	-1.0
Males	102,838	100,962	-1.8	35,237	41,651	+18.2	138,075	142,613	+3.3
Females	37,374	32,884	-12.0	7,748	5,845	-24.6	45,122	38,729	-14.2
Estimated Anglers Under 16 Years of Age	48,309	38,000	-21.3	11,541	9,123	-21.0	59,850	47,123	-21.3
Total Estimated Active Anglers of all Ages	188,521	171,846	-8.8	54,526	56,619	+3.8	243,047	228,465	-6.0

TABLE A2. Comparison of the number of licensed resident anglers and their places of residence, 1975 and 1980

Area	1975	1980	% Change
Rural	91,169	88,697	-2.7
Regina	16,054	13,603	-15.3
Saskatoon	22,488	20,251	-9.9
Moose Jaw	4,512	11,622	+157.6
Prince Albert	5,916	13,276	+124.4
Swift Current	2,173	2,157	-0.7
Yorkton	3,545	6,052	+70.7
North Battleford	2,536	4,477	+76.5
Battleford	811	683	-15.8
Estevan	1,705	1,474	-13.5
Other Towns	2,791	4,551	+63.1
TOTAL	**153,700**	**166,843**	**+8.6**

TABLE A3. Comparison of the origin and numbers of non-resident anglers who held Saskatchewan fishing licences, 1975 and 1980.

ORIGIN	1975	1980	% Change
CANADIANS			
Quebec	93	594	+538.7
Ontario	1,121	1,543	+37.6
Manitoba	6,354	8,580	+35.0
Alberta	11,868	15,991	+34.7
British Columbia	3,644	3,338	-8.4
Territories	374	0	-100.0
TOTAL	**23,454**	**30,046**	**+28.1**
NON-CANADIANS			
Mid-Atlantic	73	199	+172.6
East North Central	3,049	1,536	-49.6
West North Central	11,275	10,129	-10.2
Mountain	3,267	4,710	+44.2
Pacific	1,380	724	-47.5
South Atlantic	218	266	+22.0
East South Central	218	266	+22.0
West South Central	871	1,550	+78.0
Other U.S.A.	73	0	-100.0
Other Countries	0	104	N/A
TOTAL	**20,424**	**19,484**	**-4.6**

TABLE A4. Comparison of angler-days expended per month by anglers in Saskatchewan, 1975 and 1980.

Month	Resident			Nonresident			Total		
	1975	1980	% change	1975	1980	% change	1975	1980	% change
January	35,819	48,509	+35.4	2,829	1,665	-41.1	38,648	50,174	+29.8
February	32,811	42,417	+29.3	1,987	1,977	-0.5	34,798	44,394	+27.6
March	33,710	46,980	+39.4	2,460	1,166	-52.6	36,170	48,146	+33.1
April	21,807	27,062	+24.1	1,230	850	-30.9	23,037	27,912	+21.2
May	153,750	172,053	+11.9	33,802	22,528	-33.4	187,552	194,581	+3.7
June	342,391	327,838	-4.3	91,172	98,696	+8.3	433,563	426,534	-1.6
July	494,712	505,176	+2.1	85,557	83,479	-2.4	580,269	588,655	+1.4
August	385,275	340,764	-11.6	44,889	50,007	+11.4	430,164	390,771	-9.2
September	139,380	150,343	+7.9	21,991	22,817	+3.8	161,371	173,160	+7.3
October	40,758	51,172	+25.6	4,180	5,924	+41.7	44,938	57,096	+27.1
November	12,248	19,010	+55.2	855	2,283	+167.0	13,103	21,293	+62.5
December	30,861	47,052	+52.5	3,778	1,917	-49.3	34,639	48,969	+41.4
Year	**1,723,522**	**1,778,376**	**+3.2**	**294,730**	**293,309**	**-0.5**	**2,018,252**	**2,071,685**	**+2.6**
Average per active angler	12.3	13.3	+8.1	6.9	6.2	-10.1	11.0	11.4	+3.6

TABLE A5. Comparison of the number of fish caught and retained by licensed anglers in Saskatchewan, 1975 and 1980.

Species	Resident			Nonresident			Total		
	1975	1980	% change	1975	1980	% change	1975	1980	% change
Pike	1,823,227	1,533,851	-15.9	386,209	389,039	+0.7	2,209,436	1,922,890	-13.0
Walleye	980,099	1,158,302	+18.2	451,144	444,612	-1.4	1,431,243	1,602,914	+12.0
Perch	1,214,430	1,472,158	+21.2	89,960	162,315	+80.4	1,304,390	1,634,473	+25.3
Lake trout	92,841	93,447	+0.7	76,737	51,272	-33.2	169,578	144,719	-14.7
Rainbow Trout	95,226	41,506	-56.4	13,878	12,742	-8.2	109,104	54,248	-50.3
Goldeye	35,530	40,968	+15.3	4,724	1,310	-72.3	40,254	42,278	+5.0
Brook trout	35,190	25,278	-28.2	10,126	1,336	-86.8	45,316	26,614	-41.3
Lake whitefish	7,509	21,544	+186.9	3,592	3,555	-1.0	11,101	25,099	+126.1
Splake	11,357	19,245	+69.5	1,776	2,078	+17.0	13,133	21,323	+62.4
Grayling	52,031	3,849	-92.6	11,694	4,697	-59.8	63,725	8,546	-86.6
Other Species	46,879	22,178	-52.7	3,549	0	-100.0	50,428	22,178	-56.0
Total Species	**4,394,319**	**4,432,326**	**+0.9**	**1,053,389**	**1,072,956**	**+1.9**	**5,447,708**	**5,505,282**	**+1.1**
Aver/angler day	2.55	2.49	-2.4	3.57	3.66	+2.5	2.73	2.66	-2.6

TABLE A6. Comparison of direct expenditures[a] made by active anglers in Saskatchewan, 1975 and 1980.

Expenditure Category	Resident			Nonresident			Total		
	1975	1980	% change	1975	1980	% change	1975	1980	% change
	$	$		$	$		$	$	
Food and Lodging	9,450,744	10,007,304	+5.9	4,648,942	6,174,229	+32.8	14,099,686	16,181,533	+14.8
Transportation	8,697,875	11,412,227	+31.2	2,941,608	5,303,106	+80.3	11,639,483	16,715,333	+43.6
Fishing Services	1,731,320	1,975,430	+14.1	1,931,918	1,190,359	-38.4	3,663,238	3,165,789	-13.6
Fishing Gear	3,326,588	3,734,352	+12.3	742,444	745,314	+0.4	4,069,032	4,479,666	+10.1
Other	983,638	409,819	-58.3	672,139	929,001	+38.2	1,655,777	1,338,820	-19.1
TOTAL	**24,190,165**	**27,539,132**	**+13.8**	**10,937,051**	**14,342,009**	**+31.1**	**35,127,216**	**41,881,141**	**+19.2**

[a] In 1980, respondents were asked a specific question on package deals which they had purchased. These costs have been distributed across the broad categories above according to the type of package specified. Some errors may occur using this technique since in many cases the package itself includes benefits which would normally be attributed to another category. For example, a fly-in package would include transportation as well as food and lodging costs. No correction factor can be calculated for these situations.

TABLE A7. Comparison of major angler purchases and investments attributable in whole or in part to angling within Saskatchewan, 1975 and 1980.

Expenditure Category	Resident			Nonresident			Total		
	1975	1980	% change	1975	1980	% change	1975	1980	% change
	$	$		$	$	$	$	$	
Fishing Gear	106,815	736,701	+589.7	6,491	20,867	+221.5	113,306	757,568	+568.6
Boats, Motors and Related Equipment	19,441,643	31,720,140	+63.2	286,510	129,529	-54.8	19,728,153	31,849,669	+61.4
Campers and Related Equipment	16,192,015	5,845,606	-63.9	34,454	113,532	+229.5	16,226,469	5,959,138	-63.3
Special Vehicles	6,880,086	20,211,724	+193.8	1,195,583	0	-100.0	8,075,669	20,211,724	+150.3
Cottages and Land	10,837,614	1,023,275	-90.6	331,995	0	-100.0	11,169,609	1,023,275	-90.8
Other Items	890,704	1,708,460	+91.8	56,396	16,011	-71.6	947,100	1,724,471	+82.1
TOTAL	**54,348,877**	**61,245,906**	+12.7	**1,911,429**	**279,939**	-85.4	**56,260,306**	**61,525,845**	+9.4

TABLE A8. Comparison of boating characteristics, 1975-80, for residents of Saskatchewan who held 1980 angling licences.

Characteristic	1975	1980	% Change
Number	51,742	56,193	+8.6
Market Value ($)	77,840,018	119,843,373	+54.0
Days Recreation	1,075,803	1,120,185	+4.1
Days Fishing	604,886	493,603	-18.4
Fishing as a % of Recreation	56.2	44.1	-21.5

APPENDIX B

METHODOLOGY

METHODOLOGY

The 1980 survey of sportfishing was the second survey carried out by the Province of Saskatchewan in conjunction with the federal Department of Fisheries and Oceans. The survey formed part of the quinquenniel surveys of sportfishing in Canada which began in 1975 and cover all jurisdictions in Canada. Due to the varying nature of licensing regulations across Canada, the methodology used was developed on the basis of regulations in the jurisdiction under study. The purpose of this section is to describe the approach used in Saskatchewan.

I. SAMPLING METHODOLOGY

All anglers in Saskatchewan, 16 years of age and older, require an angling licence. Records for 1980 licence sales were used as the frame for selecting the required sample. Although the receipts for all licence sold had not been received by December, 1980, it was agreed that there were sufficient returns in each category (approximately 80-85%) to allow for a representative sample of anglers for the survey.

The licensing files were stratified by licence-type and origin. For each stratum, a systematic random sample of licence holders was drawn resulting in a total of 2,950 prospective respondents.

II. MAILING

All mailing operations were handled by the staff of the Fisheries Division, Department of Northern Saskatchewan in La Ronge, Saskatchewan. Questionnaires, covering letters and postage-paid return envelopes were mailed during the second week of January, 1981. Two follow-up mailings to nonrespondents were conducted after six and twelve weeks from the original mailing. Questionnaires returned by April 30, 1981 were used in the analysis of the survey. The useable return rate from three mailings for both resident and nonresident anglers was 57%.

III. CODING, EDITING AND DATA CAPTURE

These operations were conducted by staff hired by the Department of Fisheries and Oceans in Ottawa. Particular emphasis was placed on the quality of the information received and the degree of substitution found. Any questionnaires which were inconsistent, incomplete or answered by someone other than the person named on the questionnaire were discarded as unuseable. Questionnaires were key-punched and verified by staff at Dominion Computer Support Services.

IV. DATA PROCESSING AND ESTIMATION PROCEDURES

All data processing was performed by staff of the Surveys Unit, Department of Fisheries and Oceans, Ottawa. There were a number of distinct procedures used to derive the estimates contained in this report and each is described below. Where necessary, cautionary notes concerning use of specific data are included. All data processing was performed using Statistical Package for the Social Sciences (SPSS) Version 9.0.

A. Editing and Updating

After receipt of the tape containing the raw data, an SPSS system file was created. These data were then edited to assess keypunch errors, inconsistencies and improper coding. All errors were corrected and a new file created.

Included in the update procedure was the creation of aggregated data on each questionnaire in order to provide estimates of activity patterns, sub-provincial estimates and totals as requested by the province.

B. Weighting

Three weighting procedures were used to develop estimates for this report.

First, all estimates for angler profiles, activity, harvest, preferences and other angler-related data were produced by calculating a respondent weight in each stratum. The stratum weights were developed using an inverse proportional weighting procedure, that is, each stratum population was divided by the appropriate stratum sample. No adjustments were made for

nonresponses. Although biases may be present, no significant differences were found when comparing the results of individual mailings on such variable as average effort and average expenditures.

Second, estimates of investment, direct expenditures, income and activity of unlicensed anglers were derived using household weights. These weights were calculated by dividing the respondent weights by the number of licensed anglers in the household. The number of licensed anglers was determined from responses given in the household profile question.

Third, the allocation of expenditures by area was attempted by allocating expenditures on the basis of the proportion of each angler activity in each area of the province. Although not a specific weighting procedure in the sense of the respondent and household weights, it was done strictly for comparison purposes because respondents were not asked to allocate their expenditures on the basis of their activities.

C. Treatment of Partial Responses

Where possible, stratum averages were used to adjust for partial responses in order to obtain population estimates. In the case of residents, substitution of cell averages was further based on their region of residence. Although it is recognized that some error may be incurred using this procedure, the number of cases requiring such substitution was less 0.5%.

V. RELIABILITY

Although no estimates of reliability are provided in this report, coefficients of variation of the mean were calculated for such variables as angler effort, harvest and expenditures. At the provincial level, the coefficients calculated were less than 10% at one standard deviation indicating a high degree of reliability. Estimates at sub-provincial levels had higher coefficients of variation and judgement of their usefulness is left to the reader. In particular, nonresident data derived for the area studies in Appendix D for all areas except North and North Central as well as expenditure data by area fished should be used with caution.

APPENDIX C

QUESTIONNAIRES USED IN 1980

Northern Saskatchewan
Tourism and Renewable Resources

Government of Canada
Fisheries and Oceans

Gouvernement du Canada
Pêches et Océans

SURVEY OF SPORT FISHING 1980

SECTION A
YOUR PERSONAL FISHING ACTIVITIES

1. Did you fish for sport in Saskatchewan in 1988? (Include ice fishing)
   YES _____ NO _____ If no, please go to Question 10, page 5.

2. Would you please indicate the number of days you spent fishing each month in Saskatchewan in 1988. A "day" is all or any part of a day fished.

Jan _____	Apr _____	July _____	Oct _____
Feb _____	May _____	Aug _____	Nov _____
Mar _____	June _____	Sept _____	Dec _____

3. Did you catch any fish in Saskatchewan in 1988?
   YES _____ NO _____

   If yes, please indicate below the number of each species you caught and kept in 1988 in Saskatchewan. Please add more species names as required.

Species	Number Caught	Number Kept
Pike (jackfish)		
Perch		
Walleye(pickerel)/sauger		
Lake trout		
Rainbow trout		
Grayling		
Goldeye		
Brook trout		
Other (e.g. whitefish, splake, brown trout, sturgeon, lakeness, etc.)		
_____		
_____		
_____		

4. In how many of the seven Areas shown on the map on page 3 did you fish in 1988? _____

5. In the appropriate boxes alongside the map, please indicate the number of days you fished in each of the Areas in 1988.

6. If you caught and kept fish from more than one Area of the province in 1988, please use the boxes below to indicate your catch by species in each of the Areas you fished. If you fished in only one Area, please go to Question 7.

- Area Number _____

Species	Number Caught	Number Kept
_____		
_____		
_____		
_____		

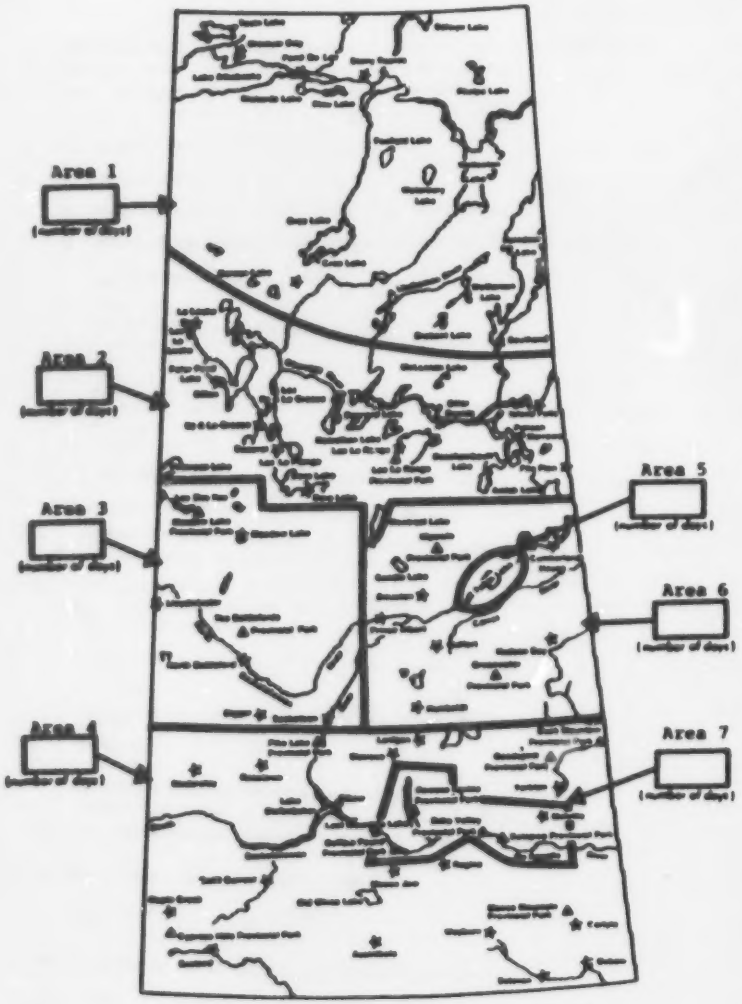
- Area Number _____

Species	Number Caught	Number Kept
_____		
_____		
_____		
_____		

- Area Number _____

Species	Number Caught	Number Kept
_____		
_____		
_____		
_____		

Question 6 is continued on page 4.



6. (Continued)

- Area Number ___

Species	Number Caught	Number Kept

- Area Number ___

Species	Number Caught	Number Kept

7. a) Please estimate the total weight of the fish you kept. _____ lbs.

b) What percentage of the above was:

eaten by your household _____ %
given to others _____ %
other uses _____ %

8. Did you fish in any stocked trout waters (excluding lake trout and grayling) in Saskatchewan in 1988? (Stocked species include: rainbow trout, brook trout, brown trout, splake and kokanee.)

YES _____ NO _____

9. Of the species available in Saskatchewan, which do you prefer to catch?

First _____ Second _____ Third _____

10. If you fished for sport in Saskatchewan in any of the years listed below, please mark those years with an "x".

1975 ____ 1976 ____ 1977 ____ 1978 ____ 1979 ____

11. Did you fish for sport OUTSIDE Saskatchewan in 1980?

YES ____ NO ____

If yes, please indicate below:

a) the name(s) of the province, territory, state or country where you fished, the number of days fished by type of water and the name of any particular species you were fishing for.

WHERE YOU FISHED	DAYS FISHED		PARTICULAR SPECIES FISHED FOR
	Fresh	Salt	
_____	___	___	_____
_____	___	___	_____
_____	___	___	_____

b) the name(s) of any National Parks in Canada or any of the Great Lakes (Superior, Huron, Ontario, etc.) where you fished and the number of days fished.

National Parks	Days Fished	Great Lakes	Days Fished
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

12. Are you a member of a sportsmen's club?

YES ____ NO ____

If yes, to which one do you belong? _____

SECTION B
EXPENDITURES ON SPORTFISHING BY YOU AND/OR MEMBERS OF YOUR HOUSEHOLD

13. Did you and/or members of your household make any major purchases or investments in Saskatchewan in 1980 for purposes relating in whole or part to sportfishing? (e.g. boats, recreational vehicles, tents, etc.)

YES ____ NO ____

If yes, please describe the items below:

Item purchased	Price	Percentage use for sportfishing
_____	$ _____	_____ %
_____	$ _____	_____ %
_____	$ _____	_____ %

14. Did you and/or members of your household purchase any "package" or so-called all-inclusive sport fishing trips, tours or outings to fish in Saskatchewan in 1980 (for example, fly-in fishing camps, going out on guide or charter boats, and so on, where the price includes transportation, plus a wide range of other facilities such as lodging, food, tackle, bait, etc.)?

YES ____ NO ____

If yes, please describe the "package(s)" below:

Type of Package	Area Number from Map	For you and your household	
		Number of anglers	Cost to household
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

15. EXCLUDING major purchases, investments and package trip costs, please estimate below the amount of money you and/or members of your household spent for sportfishing in Saskatchewan in 1980:

1. Lodging (hotel, motel, cabin, etc.)	$ _____
2. Campsite fees	_____
3. Food (restaurant, meals, groceries and beverages)	_____
4. Travel costs within Saskatchewan (by car, air, u-drives, etc.)	_____
5. Boat rentals	_____
6. Fishing supplies (tackle, clothes, etc.)	_____
7. Bait	_____
8. Household owned boat costs (gas, repairs, storage, etc.)	_____
9. Guide services	_____
10. Fishing licences, permits and access fees	_____
11. Other (please specify) _____	_____
_____	_____

16. If you or members of your household fished in Canada outside Saskatchewan in 1980, please estimate how much was spent elsewhere for sportfishing.

$ _____ spent in other parts of Canada

SECTION C
HOUSEHOLD OWNERSHIP OF BOATS AND FISHING GEAR

17. How many boats are owned by your household which are used for sport fishing or other recreational purposes?

_____ boats (If none, please go to Question 20).

18. Please provide the following information on your boats:
(Type codes: 1. canoe, 2. rowboat, 3. outboard, 4. sailboat, 5. inboard-outboard, 6. inboard, 7. houseboat, 8. skiff, other)

Characteristic	Boat 1	Boat 2	Boat 3	Boat 4
Type (use code #)	_____	_____	_____	_____
Length (in feet)	_____ ft	_____ ft	_____ ft	_____ ft
Horsepower	_____ hp	_____ hp	_____ hp	_____ hp
Present market value	$_____	$_____	$_____	$_____
Days used for all recreation in Saskatchewan in 1980 (including sportfishing)	_____	_____	_____	_____
Days used for sportfishing	_____	_____	_____	_____
Is the boat usually (✓):				
- kept moored	—	—	—	—
- transported by trailer	—	—	—	—
- carried by car-top	—	—	—	—

19. If any of your boats are usually kept moored, where do you moor your boats?

PLACE/HARBOUR

_____ _____

20. Excluding the above boat(s), please estimate on boat you can the present market value of the sportfishing gear and equipment owned and used by you and members of your household solely for sportfishing.

Fishing tackle, gear, motors, etc. $_____

Other (please specify) _____ $_____

_____ $_____

_____ $_____

SECTION D
HOUSEHOLD PROFILE

To help us analyse all the information provided, we would appreciate some information about you and your household. ALL ANSWERS ARE CONFIDENTIAL.

21. Person who completed the questionnaire:
Your age: _____ years
Your sex: Male _____ Female _____

22. Would you please provide the following information about other members of your household. (If no days were fished, please enter "0").

	Age	Sex		Number of days fished in Saskatchewan in 1988
		Male	Female	
1.	_____	___	___	_____
2.	_____	___	___	_____
3.	_____	___	___	_____
4.	_____	___	___	_____
5.	_____	___	___	_____
6.	_____	___	___	_____
7.	_____	___	___	_____
8.	_____	___	___	_____
9.	_____	___	___	_____

23. What was the approximate total income of your household before taxes in 1988?
Prefer not to answer _____

1. Under $5,000 _____
2. $ 5,000 - $ 9,999 _____
3. $10,000 - $14,999 _____
4. $15,000 - $19,999 _____
5. $20,000 - $24,999 _____
6. $25,000 - $29,999 _____
7. $30,000 - $34,999 _____
8. $35,000 - $39,999 _____
9. $40,000 - $44,999 _____
10. $45,000 - $49,999 _____
11. Over $50,000 _____

SECTION E
YOUR COMMENTS

You are invited to comment below about your fishing experiences and fishing opportunities in Saskatchewan (for example, fishing quality, costs, environmental quality, access, hospitality, enforcement, services, accommodation, regulations, problems, etc.).

YOUR COOPERATION AND ASSISTANCE ARE APPRECIATED

Northern Saskatchewan
Tourism and Renewable Resources

Government of Canada
Fisheries and Oceans

Gouvernement du Canada
Pêches et Océans

SURVEY OF SPORT FISHING 1980

SECTION A
YOUR PERSONAL FISHING ACTIVITIES

1. Did you fish for sport in Saskatchewan in 1980? (Include ice fishing)
   YES _____ NO _____ If no, please go to Question 10, page 5.

2. Would you please indicate the number of days you spent fishing each month in Saskatchewan in 1980. A "day" is all or any part of a day fished.

Jan _____	Apr _____	July _____	Oct _____
Feb _____	May _____	Aug _____	Nov _____
Mar _____	June _____	Sept _____	Dec _____

3. Did you catch any fish in Saskatchewan in 1980?
   YES _____ NO _____

   If yes, please indicate below the number of each species you caught and kept in 1980 in Saskatchewan. Please add more species names as required.

Species	Number Caught	Number Kept
Pike (jackfish)		
Perch		
Walleye(pickerel)/sauger		
Lake trout		
Rainbow trout		
Grayling		
Goldeye		
Brook trout		
Other (e.g. whitefish, splake brown trout, sturgeon, kokanee, etc.)		
_____		
_____		

4. In how many of the seven Areas shown on the map on page 3 did you fish in 1980? _____
   If you fished in only one Area, on which river, lake or stream did you fish most often? _____

5. In the appropriate boxes alongside the map, please indicate the number of days you fished in each of the Areas in 1980.

6. If you caught and kept fish from more than one Area of the province in 1980, please use the boxes below to indicate your catch by species in each of the Areas you fished. If you fished in only one Area, please go to Question 7.

• Area Number ____ Lake/river _____

Species	Number Caught	Number Kept
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

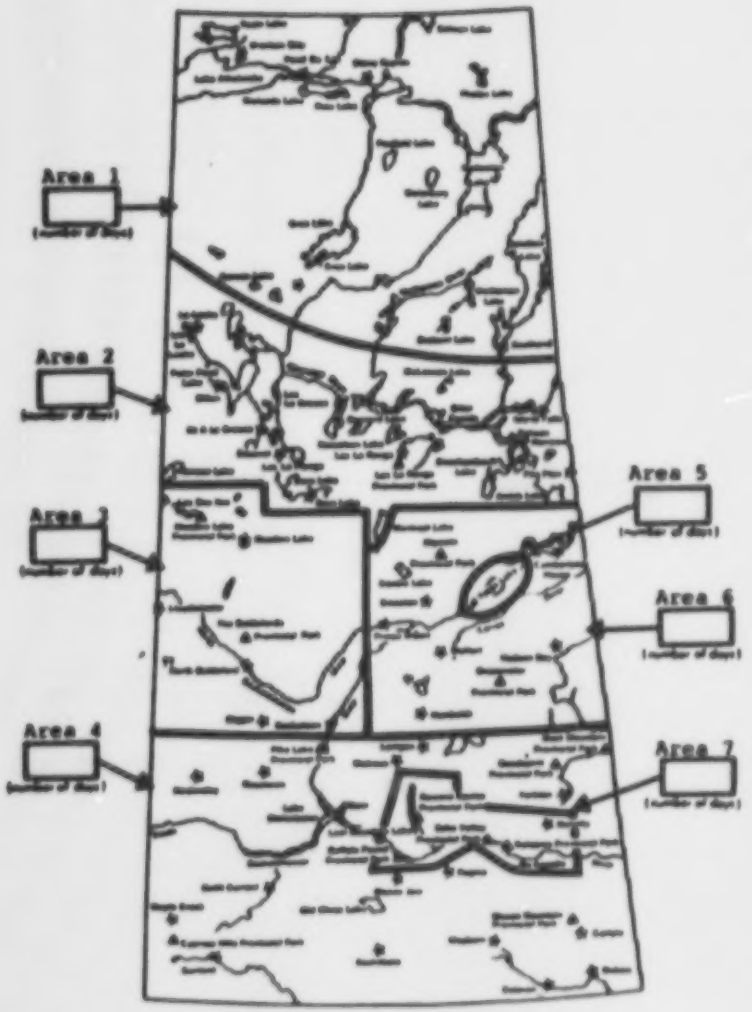
• Area Number ____ Lake/river _____

Species	Number Caught	Number Kept
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

• Area Number ____ Lake/river _____

Species	Number Caught	Number Kept
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Question 6 is continued on page 4.



4. (Continued)

- Area Number ___ Lake/river _____

Species	Number Caught	Number Kept
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

- Area Number ___ Lake/river _____

Species	Number Caught	Number Kept
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

7. a) Please estimate the total weight of the fish you kept. _____ lbs.

b) What percentage of the above was:

eaten by your household _____ %
given to others _____ %
other uses _____ %

8. Did you fish in any stocked trout waters (excluding lake trout and grayling) in Saskatchewan in 1988? (Stocked species include: rainbow trout, brook trout, brown trout, splake and tokeroo.)

YES _____ NO _____

9. Of the species available in Saskatchewan, which do you prefer to catch?

First _____ Second _____ Third _____

10. If you fished for sport in Saskatchewan in any of the years listed below, please mark those years with an "x".

1975 ____ 1976 ____ 1977 ____ 1978 ____ 1979 ____

11. Did you fish for sport OUTSIDE Saskatchewan in 1980?

YES _____ NO _____

If yes, please indicate below:

a) the name(s) of the province, territory, state or country where you fished, the number of days fished by type of water and the name of any particular species you were fishing for.

WHERE YOU FISHED	DAYS FISHED Fresh	DAYS FISHED Salt	PARTICULAR SPECIES FISHED FOR
_____	____	____	_____
_____	____	____	_____
_____	____	____	_____

b) the name(s) of any National Parks in Canada or any of the Great Lakes (Superior, Huron, Ontario, etc.) where you fished and the number of days fished.

National Parks	Days Fished	Great Lakes	Days Fished
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

12. Are you a member of a sportsmen's club?

YES _____ NO _____

SECTION B
EXPENDITURES ON SPORTFISHING BY YOU AND/OR MEMBERS OF YOUR HOUSEHOLD

13. Did you and/or members of your household make any major purchases or investments in Saskatchewan in 1980 for purposes relating in whole or part to sportfishing? (e.g. boats, recreational vehicles, tents, etc.)

YES _____ NO _____

If yes, please describe the items below:

Item purchased	Price	Percentage use for sportfishing
_____	$ _____	_____ %
_____	$ _____	_____ %
_____	$ _____	_____ %

16. Did you and/or members of your household purchase in Saskatchewan any "package" or so-called all-inclusive sport fishing trips, tours or outings to fish in Saskatchewan in 1980 (for example, fly-in fishing camps, going out on guide or charter boats, and so on, where the price includes transportation, plus a wide range of other facilities such as lodging, food, tackle, bait, etc.)?

YES _____ NO _____

If yes, please describe the "package(s)" below:

Type of Package	Area Number from Map	For you and your household: Number of anglers	For you and your household: Cost to household
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

15. EXCLUDING major purchases, investments and package trip costs, please estimate below the amount of money you and/or members of your household spent for sportfishing in Saskatchewan in 1980:

1. Lodging (hotel, motel, cabin, etc.)	$ _____
2. Campsite fees	_____
3. Food (restaurant, meals, groceries and beverages)	_____
4. Travel costs within Saskatchewan (by car, air, u-drive, etc.)	_____
5. Boat rentals	_____
6. Fishing supplies (tackle, clothes, etc.)	_____
7. Bait	_____
8. Household owned boat costs (gas, repairs, moorage, etc.)	_____
9. Guide services	_____
10. Fishing licenses, permits and access fees	_____
11. Other (please specify) _____	_____
_____	_____

16. If you or members of your household fished in Canada outside Saskatchewan in 1980, please estimate how much was spent elsewhere for sportfishing.

- $ _____ spent in other parts of Canada

SECTION C
TRIP INFORMATION

17. a) How many trips did you make to Saskatchewan in 1980?

_____ trips.

b) How many days in total did you spend in Saskatchewan in 1980 for all reasons?

_____ days.

18. a) On how many of your trips to Saskatchewan in 1980 did you fish?

_____ trips.

b) For how many of these trips was fishing:

	Number of Trips
- your main reason for visiting Saskatchewan	_____
- a secondary reason	_____
- decided upon after arrival	_____

19. What type of accommodation did you use on your trips to Saskatchewan in 1980?

Type of Accommodation	Trips on which You Fished (please check)	Trips on which You did Not Fish (please check)
Friends and relatives	_____	_____
Tent or trailer	_____	_____
Fishing lodge or camp	_____	_____
Other commercial lodging	_____	_____
Other (please specify)	_____	_____
_____	_____	_____

20. How many persons in your household held Saskatchewan fishing licences in 1988 by type?

	Number of Persons
Season licence	_____
1-day licence	_____

21. How would you rate fishing in Saskatchewan?

Excellent	_____	Fair	_____
Very Good	_____	Poor	_____
Good	_____		

22. Do you intend to fish in Saskatchewan in the future?

Yes _____ No _____

23. If there had been no fishing opportunities in Saskatchewan, would you have:

	(✓)
- stayed a shorter time	_____
- substituted other activities	_____
- not come at all	_____

SECTION D
HOUSEHOLD PROFILE

To help us analyse all the information provided, we would appreciate some information about you and your household. ALL ANSWERS ARE CONFIDENTIAL.

24. Person who completed the questionnaire:

Your age: _____ years

Your sex: Male _____ Female _____

25. Would you please provide the following information about other members of your household. (If no days were fished, please enter "0").

	Age	Sex		Number of days fished in Saskatchewan in 1988
		Male	Female	
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____

26. What was the approximate total income of your household before taxes in 1988?

Prefer not to answer _____

1. Under $5,000	_____	7. $30,000 - $34,999	_____
2. $ 5,000 - $ 9,999	_____	8. $35,000 - $39,999	_____
3. $10,000 - $14,999	_____	9. $40,000 - $44,999	_____
4. $15,000 - $19,999	_____	10. $45,000 - $49,999	_____
5. $20,000 - $24,999	_____	11. Over $50,000	_____
6. $25,000 - $29,999	_____		

SECTION C
YOUR COMMENTS

You are invited to comment below about your fishing experiences and fishing opportunities in Saskatchewan (for example, fishing quality, costs, environmental quality, access, hospitality, enforcement, services, accommodation, regulations, problems, etc.).

YOUR COOPERATION AND ASSISTANCE ARE APPRECIATED

APPENDIX D
PROFILES OF THE SEVEN FISHING AREAS OF SASKATCHEWAN IN 1980

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NORTH

Angler Profile

A total of 16,575 anglers indicated they fished in the North area of Saskatchewan in 1980, of which 11,221 were Saskatchewan residents (Table D15). Only 1,920 residents of the North fished therein (Table D16); most Saskatchewan fishermen in the North were from the South. An estimated 2,128 residents of the North fished in the Qu'Appelle area and another 1,474 fished in the North Central area. Of the nonresident anglers who fished in the North almost 70% were non-Canadians (Table D15).

An estimated 8,517 residents of the North area of Saskatchewan held angling licences in 1980 (Table D17). Of these, 6,131 anglers, or 72% actively fished in 1980. Relatively speaking, there were more new anglers in the North than in all other areas of Saskatchewan. For example, only 49% of the 1980 North area anglers held licences in 1979 compared to 57-90% in the other areas.

The North is attractive to the wealthiest non-Canadian anglers but the income profiles of the other anglers in this area were similar to that of the province as a whole (Tables D18, D19 and D20). Nearly one half of the non-Canadian anglers who fished in the North indicated their annual incomes to be in excess of $40,000. In contrast, a large proportion of resident and nonresident Canadian anglers indicated their annual incomes were between $20,000 and $29,999.

Angler Fishing Effort and Harvest

Anglers fished a total of 105,592 angler-days in the North in 1980 (Table D21). Resident anglers fished 77,441 angler-days, or 73% of the total, and non-Canadian anglers fished 18,506 angler-days, or 18% of the total.

Residents of the North fished in all areas of Saskatchewan in 1980 (Table D22). They expended 50,483 angler-days in the North and another 23,062 angler-days in the Qu'Appelle area. Smaller amounts of fishing effort were expended in the other five areas.

About of 95% of angler-days expended by North area residents occurred during the period May-September with more than half of this fishing effort occurring during July and August (Table D23). March was also an important month for fishing.

A total of 229,700 fish of the major species weighing 400,738 kg were taken by anglers who fished in the North in 1980 (Tables D24 and D26). Resident anglers took 56% of the total harvest in numbers; the balance was taken by nonresident anglers, and almost 89% of it was taken by non-Canadians (Table D25).

Pike, lake trout and walleye, respectively, comprised 96% of the major species taken by all anglers in the North (Table D24). This area provided 54% of the lake trout harvested in Saskatchewan. Resident anglers harvested almost as many lake trout as pike but the numbers of walleye were almost half that of either the pike or trout. In contrast, nonresident anglers harvested almost as many walleye as lake trout but the pike harvest was about 1.3 times greater than the trout.

Residents of the North preferred walleye, pike, trout and perch (Table D27); Saskatchewan anglers who fished in the North preferred walleye, pike, lake trout and perch (Table D28). Lake trout were fifth in preference to residents of the North and rainbow trout were fifth in preference to Saskatchewan anglers who fished there.

Pike, lake trout and walleye comprised 95% of the fish taken by nonresident anglers in the North in 1980 (Table D25). Nonresident Canadians preferred, and harvested, lake trout, pike and walleye, in that order (Table D29), with lake trout comprising 68% of the total (Table D25). Non-Canadian

anglers preferred pike, lake trout and walleye (Table D30) but harvested pike, walleye and lake trout with pike comprising 42% of their total (Table D25).

On the average, anglers in the North harvested about 2.2 fish/angler-day in 1980 (Table D1). Non-Canadian anglers took about 4.8 fish/angler-day whereas resident and nonresident Canadian anglers each took about one-third of that.

TABLE D1. The average numbers of fish of the major species caught and retained per angler-day in the North area of Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	0.64	0.17	2.01	0.84
Perch	0.0	0.0	0.0	0.0
Walleye	0.33	0.05	1.44	0.50
Lake trout	0.63	0.80	1.19	0.74
Rainbow trout	0.01	0.04	0.0	0.01
Grayling	0.05	0.09	0.18	0.08
Goldeye	0.0	0.02	0.0	*
Brook trout	0.0	0.0	0.0	0.0
Major Species	**1.66**	**1.17**	**4.82**	**2.17**

* less than 0.01

Non-Canadian anglers took 2.0 pike, 1.4 walleye and 1.2 lake trout/ angler-day; resident and nonresident Canadians took significantly fewer of these species.

On the average, each angler in the North caught and retained 14 fish in 1980 (Table D2). Each non-Canadian angler retained 24 fish, and each resident and nonresident Canadian angler retained 7 and 11 fish, respectively.

Angler Expenditures and Investments

In 1980, anglers spent a total of $4.7 million in the North on activities directly associated with sportfishing (Table D31). Anglers who resided in the North spent about $1.8 million, or $157 per angler on sportfishing in the province (Table D32) whereas Saskatchewan anglers who fished in the North spent just over $1.6 million there, or $147 per angler (Table D33). Nonresident Canadians spent $0.4 million in the North, or $278 per angler (Table D34); and non-Canadians spent $2.6 million, or $703 per angler (Table D35).

Expenditures by all anglers in the North represented 11% of the total spent on sportfishing in Saskatchewan in 1980 (Table D31). About 27% of the money spent by non-Canadian anglers in Saskatchewan was in the North (Table D35). In contrast only 6% of the money spent by resident anglers and 10% of that spent by Canadian anglers was in the North (Tables D33 and D34).

Package deals represented the major expenditure by all anglers in the North in 1980 (Table D31); they spent $2.3 million on these, or 49% of all expenditures there. Most of the expenditures, about $1.5 million, were made by non-Canadian anglers (Table D35). Saskatchewan and nonresident Canadian anglers together spent $753,338 on package deals in the North (Tables D33 and D34). In contrast, residents of the North only spent about $68,000 on package deals (Table D32).

Travel costs comprised a second important expenditure for all anglers in the North in 1980 (Table D31). Saskatchewan anglers and non-Canadian anglers each spent somewhat more than $350,000 on travel costs there (Tables D33 and D35). Travel costs were also the major expenditure for

residents of the North (Table D32): $0.6 million, or 37% of their total was for travel.

TABLE D2. **The average numbers of fish of the major species caught and retained during the season by resident and nonresident anglers over 15 years of age in the North area of Saskatchewan, 1980.**

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	4.4	1.0	10.0	5.4
Perch	0.0	0.0	0.0	0.0
Walleye	2.3	0.3	7.1	3.2
Lake trout	4.3	4.7	5.9	4.7
Rainbow trout	0.1	0.3	0.0	0.1
Grayling	0.3	0.5	0.9	0.5
Goldeye	0.0	*	0.0	*
Brook trout	0.0	0.0	0.0	0.0
Major Species	**11.4**	**6.8**	**23.9**	**13.9**

* less than 0.01

Food and lodging together represented other important expenditures of all anglers in the North in 1980 (Table D31). Saskatchewan and non-Canadian anglers each spent more than $350,000 on these (Tables D33 and D35). Saskatchewan anglers spent more on food but non-Canadian anglers spent more on lodging. In contrast, residents of the North spent more than $495,000 on food and lodging, and 72% of their expenditures were for food (Table D32).

Fishing supplies were a fourth important expenditure for all anglers in the North (Table D31). Almost 72% of these, or about $206,000 were made by Saskatchewan anglers (Table D33); nonresident anglers only spent about $82,000 on these items (Tables D34 and D35). Residents of the North spent about $160,000 on fishing supplies (Table D32).

In 1980, anglers residing in the North invested more than $1.0 million on major durables and property used in whole or in part for sportfishing in Saskatchewan (Table D36). Almost $900,000 of these investments were for sportfishing. Expenditures by North area residents in this category were significantly higher - at 83% - than those by residents of other areas.

In 1980 a total of 3,876 boats, worth $9.8 million, were owned by anglers living in the North area of Saskatchewan (Tables D37 and D38). Canoes and outboards together comprised 76% of the number and 55% of the value.

Residents of the North used their boats for a total of 80,433 days of recreation in Saskatchewan (Table D39) of which 31,975, or 40% were used for fishing (Table D40). Canoes and outboards were used for 79% of the fishing days undertaken by North area residents.

NORTH CENTRAL

Angler Profile

A total of 60,754 anglers indicated they fished in the North Central area in 1980, of which 38,712 were Saskatchewan residents (Table D15). Only 4,539 residents of this area fished therein (Table D16); most Saskatchewan fishermen in the North Central area were from the South and West Central areas. Of the nonresident anglers who fished in the North Central area, 58% were non-Canadians (Table D15).

An estimated 8,051 residents of the North Central area held angling licences in 1980 (Table D17). Of these, 7,486, or 93% actively fished in 1980. There was little turnover in the numbers of residents of this area holding licences: for example, 73% of the 1980 anglers there held licences in 1979 and 37% of them held licences in 1975.

The income profiles of anglers who fished in the North Central area were similar to that of the province as a whole. Most resident anglers reported their annual incomes to be between $10,000 and $39,999 (Table D18); most nonresident anglers reported their annual incomes to be between $20,000 and $39,999 (Tables D19 and D20). Almost 16% of nonresident Canadian and 23% of nonresident non-Canadian anglers who fished in the North Central area reported incomes in excess of $40,000.

Angler Fishing Effort and Harvest

More angler-days were spent fishing in the North Central area in 1980 than in any other area of Saskatchewan (Table D21): 19% of the total fishing effort expended in 1980 was in this area alone. Resident anglers fished 252,820 angler-days, or 63% of the total expended in this area. Nonresident anglers fished 147,347 angler-days with the effort about equally divided between the nonresident Canadians and non-Canadians.

North Central residents fished in all areas of Saskatchewan in 1980 except the Qu'Appelle (Table D22). About half their total fishing effort was spent in the North Central area with another third expended in the West and East Central areas.

Approximately 86% of angler-days expended by North Central resident anglers occurred during May through September with about half of this occurring in June and July (Table D23). Another 10% occurred during the winter months December through March.

A total of 1.4 million fish of the major species weighing 2.0 million kg were taken by all anglers fishing in the North Central area (Tables D24 and D26). This area provided the largest harvest - 26% of the number and 41% of the weight - of any in the province. Resident anglers took 61% of the number of all fish caught and retained in the North Central area. Almost 67% of the fish taken by nonresident anglers was taken by non-Canadians (Table D25).

Walleye, pike and perch, respectively, comprised 96% of the major species taken by all anglers in the North Central area in 1980 (Table D24). This area provided 39% of the walleye and 30% of the pike harvested in Saskatchewan. Resident anglers harvested almost as many walleye as pike but the numbers of perch were about half that of either the pike or walleye. In contrast, non-resident anglers harvested almost as many pike as walleye and almost as many perch as lake trout but the harvests of either of the latter two species were 6 - 9% of the former. This area also provided 21% of the rainbow trout and 17% of the brook trout harvested in Saskatchewan.

Residents of the North Central area preferred walleye, pike, trout and perch (Table D27); Saskatchewan anglers who fished in the North Central area preferred walleye, pike, perch and trout (Table D28). The harvests of resident anglers were very similar to their preferences (Table D24).

Walleye and pike comprised 93% of the fish taken by nonresident anglers in the North Central area in 1980 (Table D25). Nonresident Canadians preferred, and harvested, walleye and pike (Table D29) with walleye comprising 56% of their total (Table D25). Non-Canadian anglers preferred pike, walleye and lake trout (Table D30) but harvested walleye, pike and lake trout (Table D25).

On the average, anglers in the North Central area harvested 3.6 fish/angler-day (Table D3). Non-Canadian anglers took 4.6 fish/angler-day, resident anglers took about 3.5/angler-day, and nonresident Canadians took about 2.8/angler-day. The apparent expertise of non-Canadian anglers is as

evident in the North Central area as in the North: they caught 2.4 walleye/angler-day compared to 1.3 - 1.6/angler-day for Canadian anglers and they caught 2.0 pike/angler-day compared to 1.0 -1.4/angler-day for Canadian anglers.

On the average, each angler in the North Central area caught and retained 24 fish (Table D24). Each non-Canadian retained 29 fish, and each resident and nonresident Canadian angler retained 22 and 20 fish, respectively.

Angler Expenditures and Investments

In 1980, anglers spent a total of $14.5 million in the North Central area on activities directly associated with sportfishing (Table D31). Anglers who resided in the North Central area spent $1.8 million, or $46 per angler on sportfishing in the province (Table D32) whereas Saskatchewan anglers who fished in the North Central area spent $6.6 million there, or $170 per angler (Table D33). Nonresident Canadian anglers spent $1.7 million in the North Central area, or $189 per angler (Table D34) and nonresident non-Canadians spent $6.2 million there, or $482 per angler (Table D35).

In 1980, more than 34% of the expenditures by all anglers in Saskatchewan were in the North Central area alone (Table D31). Saskatchewan residents and nonresident non-Canadians each spent more than $6 million in this area (Tables D33 and D35). Almost 63% of all the money spent by the latter group and almost 24% of all the money spent by the former was in this area.

TABLE 03. The average numbers of fish of the major species caught and retained per angler-day in the North Central area of Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	1.42	1.03	1.97	1.47
Perch	0.61	0.13	0.10	0.43
Walleye	1.29	1.57	2.35	1.55
Lake trout	0.09	0.06	0.21	0.11
Rainbow trout	0.04	0.02	0.0	0.03
Grayling	0.0	0.0	*	*
Goldeye	*	0.0	0.0	*
Brook trout	0.02	0.01	0.0	0.01
Major Species	**3.47**	**2.82**	**4.63**	**3.60**

* less than 0.01

TABLE D4. **The average numbers of fish of the major species caught and retained during the season by resident and nonresident anglers over 15 years of age in the North Central area of Saskatchewan, 1980.**

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	9.3	7.4	12.5	9.7
Perch	4.0	1.0	0.7	2.8
Walleye	8.4	11.3	14.8	10.2
Lake trout	0.6	0.5	1.3	0.7
Rainbow trout	0.1	0.1	0.0	0.2
Grayling	0.0	0.0	*	*
Goldeye	*	0.0	0.0	*
Brook trout	0.1	0.1	0.0	0.1
Major Species	**22.5**	**20.4**	**29.3**	**23.7**

* less than 0.01

Travel costs, package deals and food represented the major categories of expenditures by all anglers in the North Central area (Table D31). Together they totalled about $8.4 million and represented 58% of the expenditures in this area. Expenditures were almost equally divided among the three categories.

Travel costs and food were the major expenditures of Saskatchewan residents who fished in the North Central area in 1980 (Table D33). Together they totalled $3.4 million and represented 52% of the expenditures by this group in this area. Saskatchewan residents only spent $267,000 on package deals in this area. In contrast, residents of the North Central area spent $1.1 million, or 62% of their total, on travel costs, food and package deals on their fishing activities in Saskatchewan (Table D32).

Package deals represented the major expenditure of nonresident non-Canadian anglers in the North Central area in 1980 (Table D35). Almost $2.2 million, or 35% of the total, was spent in this category. Lodging, travel costs and food were also important, and together represented another $2.3 million in expenditures.

Package deals, food and travel costs were the major expenditures for non-resident Canadians who fished in the North Central area in 1980 (Table D34). Together they amount to $1.1 million and comprised 63% of their expenditures in this area.

Lodging was an important item of expenditure for all anglers in Saskatchewan (Table D31). This category was especially important for nonresident non-Canadian anglers who spent almost $0.9 million (Table D35). Saskatchewan residents who fished in this area spent $0.6 million (Table D33). In contrast, residents of the North central area only spent about $66,000 on lodging in Saskatchewan in 1980 (Table D32).

Fishing supplies, boat costs and boat rentals were other important expenditures for anglers in the North Central area in 1980 (Table D31). Together they comprised about $2.5 million and represented 17% of the expenditures in this area. Saskatchewan residents who fished in the North Central area spent $1.6 million, or 25% of their total, on these items (Table D33). In contrast, residents of the North Central area only spent about $0.5 million on these items for their fishing in Saskatchewan (Table D32).

Nonresident anglers spent about $0.8 million on these items in the North Central area (Tables D34 and D35).

Anglers residing in the North Central area invested $5.9 million on major durables and property used in whole or in part for sportfishing in Saskatchewan in 1980 (Table D36). Almost $2.6 million of this investment, or 43%, was for sportfishing.

In 1980, a total of 1,746 boats, worth $6.0 million, were owned by anglers living in the North area of Saskatchewan (Tables D37 and D38). Outboards comprised 62% of the number and 74% of the value.

Residents of the North Central area used their boats for a total of 34,306 days of recreation in 1980 (Table D39) of which, 22,731, or 66%, were used for fishing (Table D40). Outboards were used for 71% of the fishing days.

WEST CENTRAL

Angler Profile

A total of 52,861 anglers indicated they fished in the West Central area of Saskatchewan in 1980, of which 45,292 were Saskatchewan residents (Table D15). A total of 26,040 residents of the West Central area fished therein and they comprised 57% of the total number of anglers there (Table D16). Most the remaining Saskatchewan anglers who fished there were from the South. Of the nonresident anglers who fished in the West Central area, 94% were Canadians (Table D15).

An estimated 44,049 residents of the West Central area held angling licences in 1980 (Table D17). Of these, 36,812, or 84%, actively fished in 1980. As in the North Central area, there were relatively few new anglers in the West Central area. For example, 66% of the 1980 West Central anglers held licences in 1979 and 49% held licences in 1975.

The income profile of anglers living in the West Central area was essentially similar to that for the entire province (Table D18), but the income profiles for nonresident anglers who fished in this area were substantially different from the average (Tables D19 and D20). More than half the Canadians reported incomes between $20,000 and $29,999 whereas more than half the non-Canadians reported incomes between $10,000 and $29,999.

Angler Fishing Effort and Harvest

Almost as much fishing effort was expended in the West Central area as in the North Central area in 1980 (Table D21). Anglers fished 382,673 angler-days in the West Central area, or 18% of the provincial total. Resident anglers fished 89% and nonresident Canadians fished 11% of the area total.

Residents of the West Central area fished in all areas of Saskatchewan in 1980 (Table D22). They spent more than 238,000 angler-days, or 53% of their total, in this area alone. They also spent more than 165,000 angler-days in the East and North Central areas and lesser amounts in the other four areas.

About 85% of the fishing effort expended by residents of the West Central area occurred during the period May - September (Table D23). Another 10% occurred during the winter months December - March.

More than 1.0 million fish of the major species weighing 800,156 kg were taken by anglers who fished in the West Central area in 1980 (Tables D24 and D26). Resident anglers took 90% of the total number; the balance was taken by nonresident anglers, and 90% of this was taken by nonresident Canadians (Table D25). The harvest in this area was 74% of the number but only 40% of the weight taken in the North Central area.

Pike, perch and walleye, respectively, comprised 99% of the major species taken by all anglers who fished in the West Central area in 1980

(Table D24). Pike comprised almost half the harvest; perch comprised a third and walleye a fifth of the harvest.

TABLE D5. The average numbers of fish of the major species caught and retained per angler-day in the West Central area of Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	1.37	1.11	1.32	1.34
Perch	0.93	0.61	0.22	0.89
Walleye	0.52	0.83	0.73	0.55
Lake trout	*	*	0.0	*
Rainbow trout	0.01	0.0	0.0	0.01
Grayling	0.0	0.0	0.0	0.0
Goldeye	*	0.0	0.0	*
Brook trout	*	0.0	0.0	*
Major Species	**2.83**	**2.55**	**2.27**	**2.79**

* less than 0.01

TABLE D6. The average numbers of fish of the major species caught and retained during the season by resident and nonresident anglers over 15 years of age in the West Central area of Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	10.3	6.0	12.6	9.7
Perch	7.0	3.3	2.1	6.5
Walleye	3.9	4.5	7.0	4.0
Lake trout	*	*	0.0	*
Rainbow trout	*	0.0	0.0	*
Grayling	0.0	0.0	0.0	0.0
Goldeye	*	0.0	0.0	*
Brook trout	*	0.0	0.0	*
Major Species	**21.2**	**13.8**	**21.7**	**20.2**

* less than 0.01

Residents of the West Central area and Saskatchewan residents who fished in the West Central area, preferred walleye, pike and perch, in that order (Tables D27 and D28). Rainbow trout were fourth in preference to area residents and fifth in preference to Saskatchewan residents who fished there. Even though walleye were preferred by resident anglers who fished

there, pike outnumbered walleye in their harvests by about 2.6:1.0 (Table D24).

Pike, walleye and perch comprised virtually all of the fish taken by non-resident anglers in the West Central area in 1980 (Table D25). Both the Canadian and non-Canadian nonresidents preferred walleye, pike and lake trout (Tables D29 and D30). Pike outnumbered walleye in their harvests by 1.4:1.0 (Table D25). The lake trout harvest was very small - only 166 fish.

On the average, anglers in the West Central area harvested about 2.8 fish/angler-day in 1980 (Table D5). Resident anglers took about 2.8 fish/angler-day; non-Canadian and nonresident Canadians took 2.3 and 2.6 fish/angler-day, respectively.

On the average, each angler in the West Central area caught and retained 20 fish in 1980 (Table D6). Each non-Canadian angler took 22 fish, each resident angler 21 fish, and each nonresident Canadian angler took 14 fish.

Angler Expenditures and Investments

In 1980, anglers spent a total of $7.3 million in the West Central area on activities directly associated with sportfishing (Table D31). Anglers who resided in the West Central area spent $7.0 million, or $156 per angler, on sportfishing in the province (Table D32) whereas Saskatchewan anglers who fished in the West Central area spent $6.0 million there, or $132 per angler (Table D33). Nonresident Canadians spent $1.1 million in the West Central area, or $151 per angler (Table D34); non-Canadian nonresidents only spent $0.2 million there, or $410 per angler (Table D35).

Expenditures by all anglers in the West Central area represented 17% of the total spent on sportfishing in Saskatchewan in 1980 (Table D31). Saskatchewan residents spent almost as much money in the West Central area as in the North Central area, and this expenditure was 22% of the total spent by

residents in the province (Table D33). In contrast, expenditures by residents of the West Central area on fishing in Saskatchewan were 26% of the total spent in the province (Table D32). About 24% of the monies spent by nonresident Canadians were in the West Central area (Table D34). Only 2% of the expenditures by nonresident non-Canadians were in this area (Table D35).

Travel costs and food were the major expenditures of all anglers in the West Central area in 1980 (Table D31). Together they amounted to about $4.0 million, or 55% of the total. Most of the expenditures, about $3.3 million, were made by Saskatchewan residents (Table D33). Almost all of the balance was made by nonresident Canadians (Table D34). Residents of the area spent $3.8 million on travel and food for their fishing in Saskatchewan (Table D32).

Fishing supplies were another major expenditure of all anglers in the West Central area in 1980 (Table D31). Most of the expenditures were made by Saskatchewan residents (Table D33) and almost all of the balance was made by nonresident Canadians (Table D34). Residents of the area spent about $0.9 million on fishing supplies for their fishing in the province (Table D32).

Lodging and boat costs were other major expenditures of equivalent importance (Table D31). Together these items amounted to $1.4 million, and Saskatchewan residents spent $1.1 million fishing in the West Central area (Table D33). Most of the balance was spent by nonresident Canadians (Table D34). Residents of the area spent about $1.3 million on these items for their fishing activities in Saskatchewan (Table D32).

In 1980, anglers residing in the West Central area invested more than $6.6 million on major durables and property used in whole or in part for sportfishing in Saskatchewan (Table D36). More than $3.2 million of this investment, or 49%, was for sportfishing.

In 1980, a total of 17,558 boats, worth $34.5 million, were owned by anglers residing in the West Central area of Saskatchewan (Tables D37 and D38). Outboards comprised 60% of the number and 69% of the value.

Residents of the West Central area used their boats for a total of 340,274 days of recreation in 1980 (Table D39), of which 126,895, or 37% were used for fishing (Table D40). Outboards were used for 63% and canoes for 24% of the fishing days.

SOUTH

Angler Profile

A total of 37,837 anglers indicated they fished in the South area of Saskatchewan in 1980, of which 32,736, or 87%, were Saskatchewan residents (Table D15). A total of 25,399 residents of the South fished therein (Table D16); most fishermen in the South were residents of the area. An estimated 20,389 residents of the South fished in the Qu'Appelle, another 14,741 fished in the North Central area, and between eleven and twelve thousand fished in Tobin Lake and the East and West Central areas. Only 5,101 nonresidents fished in the South, 82% of whom were Canadians (Table D15).

An estimated 71,405 residents of the South held angling licences in the 1980 (Table D17). Of these, 55,831, or 78%, actively fished in 1980. Sixty percent of the 1980 South area anglers held licences in 1979 and 42% of them held licences in 1975.

The income profile of Saskatchewan anglers who fished in the South in 1980 was similar to that of the province as a whole (Table D18). About 60% of nonresident Canadians had incomes between $20,000 and $29,999 (Table D19) and about 68% of the nonresident non-Canadians had incomes in excess of $30,000 (Table D20).

Angler Fishing Effort and Harvest

Anglers fished a total of 334,319 angler-days in the South in 1980 (Table D21). Resident anglers fished 304,293 angler-days, or 91% of the total.

Residents of the South fished in all areas of Saskatchewan in 1980 (Table D22). They expended 260,298 angler-days in the South and another 229,147 angler-days in the Qu'Appelle area. They spent 58,000-85,000 angler-days in the Tobin Lake and the North, West and East Central areas but only 9,423 angler-days in the North.

About 81% of the angler-days expended by South area residents occurred during the period May - September with 63% of it occurring during June, July and August (Table D23). About 12% of the angler-days occurred in the winter months December - March.

A total of 964,826 fish of the major species weighing 438,883 kg were taken by anglers who fished in the South in 1980 (Tables D24 and D26). Resident anglers took 84% of the total number; the balance was taken by nonresident anglers, and about 58% of it was taken by nonresident Canadians (Table D25). Almost as many fish were taken in the South as in the North Central area but the weight harvested was only 52% of that area.

Perch and pike comprised 90% of the major species taken by all anglers who fished in the South (Table D24). Perch alone comprised 69% of the total harvests of resident and nonresidents anglers; almost 41% of the provincial harvest of perch occurred in the South. Residents harvested more pike than walleye but nonresidents harvested more walleye than pike.

Residents on the South, and Saskatchewan residents who fished in the South in 1980 preferred walleye, pike, perch and trout, respectively (Tables D27 and D28). Nonresident Canadians preferred walleye, perch, pike, rainbow trout and trout, in that order (Table D29) whereas nonresident

non-Canadians preferred walleye, pike, lake trout, rainbow trout and perch, in that order (Table D30).

On the average, anglers in the South harvested about 2.9 fish/angler-day in 1980 (Table D7). Non-Canadian anglers took about 9.8 fish/angler-day whereas resident and nonresident Canadian anglers each took about 2.7 and 3.7 fish/angler-day. Non-Canadian anglers took about 6.9 perch, 1.4 walleye and 1.3 pike/angler-day; resident and nonresident Canadians took considerably fewer of these species.

On the average, each angler in the South caught and retained 26 fish in 1980 (Table D8). Each non-Canadian angler retained 67 fish and each resident and non-resident Canadian angler retained 25 and 21 fish, respectively.

Angler Expenditures and Investments

In 1980, anglers spent a total of $3.7 million in the South on activities directly associated with sportfishing (Table D31). Anglers who resided in the South spent $11.5 million, or $351 per angler on sportfishing in the province (Table D32) whereas Saskatchewan anglers who fished in the South spent about $3.0 million there, or $91 per angler (Table D33). Nonresident Canadians spent $0.4 million in the South, or $107 per angler (Table D34); and non-Canadians spent about $0.3 million, or $317 per angler (Table D35).

Expenditures by all anglers in the South represented 9% of the total spent on sportfishing in Saskatchewan in 1980 (Table D31). Almost 42% of the expenditures of Saskatchewan residents for angling in the province were made by residents of the South (Table D32). In contrast, only 11% of the expenditures by Saskatchewan residents for angling in the South occurred there (Table D33). About 10% of the money spent by nonresident Canadians and only 3% of that spent by nonresident non-Canadian anglers was in the South (Tables D34 and D35).

Travel costs and food were the major expenditures of all anglers who fished in the South in 1980 (Table D31). Together they amounted to about $2.0 million, or 54% of the total. Most of the expenditures, about $1.6 million, were made by Saskatchewan residents (Table D33) and a large proportion of the balance was made by nonresidents (Table D34). In contrast, residents of the South spent about $6.0 million on travel and food for their fishing in Saskatchewan (Table D32).

TABLE D7. The average numbers of fish of the major species caught and retained per angler-day in the South area of Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	0.61	0.48	1.34	0.61
Perch	1.85	2.48	6.88	1.99
Walleye	0.17	0.51	1.42	0.22
Lake trout	*	0.0	0.0	*
Rainbow trout	*	0.23	0.18	0.02
Grayling	0.0	0.0	0.0	0.0
Goldeye	0.04	0.0	0.0	0.03
Brook trout	0.01	0.0	0.0	0.01
Major Species	**2.68**	**3.70**	**9.82**	**2.88**

* less than 0.01

TABLE D8. The average numbers of fish of the major species caught and retained during the season by resident and nonresident anglers over 15 years of age in the South area of Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	5.6	2.7	9.1	5.4
Perch	17.2	14.1	46.8	17.6
Walleye	1.6	2.9	9.7	1.9
Lake trout	*	0.0	0.0	*
Rainbow trout	*	1.3	1.2	0.2
Grayling	0.0	0.0	0.0	0.0
Goldeye	0.3	0.0	0.0	0.3
Brook trout	0.1	0.0	0.0	0.1
Major Species	**24.8**	**21.0**	**66.8**	**25.5**

* less than 0.01

Fishing supplies comprised another major expenditure for all anglers in the South in 1980 (Table D31). More than 91%, or about $0.5 million, of these expenditures were made by Saskatchewan anglers fishing in the South (Table D33). In contrast, residents of the South spent more than $1.5 million on fishing supplies for their fishing activities in the province (Table D32).

Boat costs and rentals represented a third major expenditure of all anglers in the South in 1980 (Table D31). Together they amounted to more than $0.4 million, and about 81% of these were incurred by Saskatchewan residents (Table D33). In contrast, residents of the South spent about $1.5 million on these items for their fishing in the province (Table D32).

Lodging was a major expenditure for residents of the South in 1980 (Table D32) but not for anglers who fished there (Table D31). Residents of the South spent more than $1.0 million on lodging for their fishing activities in the province, whereas anglers who fished in the South only spent about $0.2 million.

Anglers residing in the South invested $3.2 million on major durables and property used in whole or in part for sportfishing in Saskatchewan in 1980 (Table D36). About $2.0 million of this, or 64%, was for sportfishing.

In 1980, a total of 22,474 boats, worth $47.9 million, were owned by anglers residing in the South (Tables D37 and D38). Forty percent of the boats in Saskatchewan in 1980 were owned by residents of the South, and they represented 40% of the value of all boats in the province. Outboards comprised 69% of the number in the South and 71% of the value.

Residents of the South used their boats for a total of 442,580 days of recreation in 1980 (Table D39), of which 212,972, or 48%, were used for sportfishing (Table D40). Outboards were used for 81% and canoes for 10% of the fishing days.

TOBIN LAKE

Angler Profile

A total of 25,826 anglers indicated they fished in the Tobin Lake area of Saskatchewan in 1980, of which 23,254, or 90%, were Saskatchewan residents (Table D15). Only 1,874 residents of the Tobin Lake area fished therein (Table D16); most Saskatchewan fishermen in the Tobin Lake area were from the South. Of the nonresident anglers who fished in the Tobin Lake area, 69% were nonresident Canadians (Table D15).

An estimated 3,139 residents of the Tobin Lake area held angling licences in 1980 (Table D17). Of these, 2,811, or 90%, actively fished in 1980. There were very few new anglers in this area, for example, 90% of Tobin Lake area anglers held licences in 1978 and 1979, and 70% of them held licences in 1975.

The income profile of anglers living in the Tobin Lake area was essentially similar to that for the entire province (Table D18) but the income profiles for nonresident anglers who fished this area were different from the average (Tables D19 and D20). More than half the nonresident Canadians reported incomes between $20,000 and $29,999 whereas more than half the non-Canadians reported incomes between $20,000 and $39,999.

Angler Fishing Effort and Harvest

Anglers fished a total of 202,479 angler-days in the Tobin Lake area in 1980 (Table D21). Resident anglers fished 193,252 angler-days, or 95% of the total. Nonresident anglers fished 9,127 angler-days with nonresident Canadians comprising about 56% of this effort.

Residents of the Tobin Lake area fished in all areas of Saskatchewan in 1980 except the North (Table D22). About 61% of their total effort was spent in the Tobin Lake area and almost all of the balance was spent in the South as well as the North, West and East Central areas.

Almost 88% of the angler-days expended by Tobin Lake area resident anglers occurred during the period May - September, and about 50% of it occurred in June and July (Table D23). Another 7% occurred during the months of November and December.

A total of 546,521 fish of the major species weighing 435,523 kg were taken by all anglers fishing in the Tobin Lake area (Tables D24 and D26). Resident anglers took 94% of the number of all fish caught and retained in this area. Nonresident Canadian anglers took about 64% of the balance (Table D25).

Walleye, pike and perch, respectively, comprised 93% of the major species taken by all anglers who fished in the Tobin Lake area in 1980 (Table D24). Walleye alone comprised 51% of the harvest of the resident anglers and 62% of the harvest of the nonresident anglers. Pike comprised about 23% of the harvest of both groups.

Residents of the Tobin Lake area, and Saskatchewan residents who fished in the Tobin Lake area in 1980 preferred walleye and pike (Tables D27 and D28). Perch were third in preference by Saskatchewan anglers who fished in this area and fourth in preference by Tobin Lake area residents. Walleye and pike were also preferred by both groups of nonresident anglers (Tables D29 and D30).

On the average, anglers in the Tobin Lake area harvested about 2.7 fish/angler-day in 1980 (Table D9). Nonresident Canadians took 3.7 fish/angler-day; resident and non-Canadian anglers each took 2.7 fish/angler-day. The greater catch of the nonresident Canadian anglers was due to their higher catch of walleye.

TABLE D9. The average numbers of fish of the major species caught and retained per angler-day in the Tobin Lake area of Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	0.62	0.85	0.88	0.63
Perch	0.49	0.45	0.24	0.49
Walleye	1.36	2.44	1.50	1.39
Lake trout	0.06	0.0	0.0	0.06
Rainbow trout	0.04	0.0	0.0	0.03
Grayling	0.0	0.0	0.0	0.0
Goldeye	0.09	0.0	0.11	0.09
Brook trout	0.01	0.0	0.0	0.01
Major Species	**2.67**	**3.74**	**2.73**	**2.70**

TABLE D10. The average numbers of fish of the major species caught and retained during the season by resident and nonresident anglers over 15 years of age in the Tobin Lake area of Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	5.2	2.4	4.5	5.0
Perch	4.1	1.3	1.2	3.8
Walleye	11.3	7.0	7.6	10.9
Lake trout	0.5	0.0	0.0	0.4
Rainbow trout	0.3	0.0	0.0	0.3
Grayling	0.0	0.0	0.0	0.0
Goldeye	0.8	0.0	0.5	0.7
Brook trout	0.1	0.0	0.0	0.1
Major Species	**22.3**	**10.7**	**13.8**	**21.2**

On the average each angler in the Tobin Lake area caught and retained 21 fish in 1980 (Table D10). Resident anglers retained 22 fish whereas nonresident Canadians and non-Canadians retained 11 and 14 fish, respectively.

Angler Expenditures and Investments

In 1980, anglers spent a total of $2.8 million in the Tobin lake area on activities directly associated with sportfishing (Table D31). Anglers who resided in the Tobin Lake area spent $0.4 million, or $19 per angler on sportfishing in the province (Table D32) whereas Saskatchewan anglers who fished in the Tobin Lake area spent $2.4 million there, or $105 per angler (Table D33). Nonresident Canadians spent $0.1 million in the Tobin Lake area, or $73 per angler (Table D34); and nonresident non-Canadians spent $0.2 million, or $333 per angler there (Table D35).

Expenditures by all anglers in the Tobin Lake area represented 7% of the total spent on sportfishing in Saskatchewan in 1980 (Table D31). More than 86% of the expenditures were made by Saskatchewan anglers who fished in the Tobin Lake area (Table D33).

Travel costs and food were the major expenditures of all anglers who fished in the Tobin Lake area in 1980 (Table D31). Together they amounted to $1.5 million, or 54% of the total. Almost all of the expenditures, about $1.4 million, were made by Saskatchewan residents (Table D33). In contrast, residents of the Tobin Lake area spent about $0.3 million on travel and food for their fishing in Saskatchewan (Table D32).

Fishing supplies represented a second major expenditure of all anglers in the Tobin Lake area (Table D31). Almost all of them were made by Saskatchewan residents fishing in the area (Table D33). Residents of the Tobin Lake area spent about $50,000 on fishing supplies for their fishing in Saskatchewan (Table D32).

Lodging and boat costs were other major expenditures of all anglers in the Tobin Lake area (Table D31). Together they amounted to $0.4 million. Almost all of them were made by Saskatchewan residents (Table D33).

Anglers residing in the Tobin Lake area invested $7.5 million on major durables and property used in whole or in part for sportfishing in Saskatchewan in 1980 (Table D36). About $5.0 million of this, or 67%, was for sportfishing.

In 1980, a total of 1,023 boats, worth $2.1 million, were owned by anglers residing in the Tobin Lake area (Tables D37 and D38). Outboards comprised 52% of the number there and 56% of the value; canoes comprised 40% of the number and 11% of the value.

Residents of the Tobin Lake area used their boats for a total of 11,215 days of recreation in 1980 (Table D39), of which 3,766, or 33% were used for sportfishing (Table D40). Outboards were used for 85% and canoes for 9% of the fishing days.

EAST CENTRAL

Angler Profile

A total of 39,645 anglers indicated they fished in the East Central area of Saskatchewan in 1980, of which 34,631 or 87%, were Saskatchewan residents (Table D15). A total of 10,800 residents of the East Central area fished therein (Table D16); most Saskatchewan fishermen in the East Central area were from the South. An estimated 5,651 East Central residents fished in the Tobin Lake area and another 4,567 fished in the North Central area. Of the nonresident anglers who fished in the East Central area, 82% were Canadians (Table D15).

An estimated 22,458 residents of the East Central area held angling licences in 1980 (Table D17). Of these, 17,524, or 78%, actively fished in 1980. Sixty-two percent of the 1980 East Central area anglers held licences in 1979 and 49% of them held licences in 1975.

The income profiles of Saskatchewan anglers who fished in the East Central area in 1980 was similar to that of the province as a whole (Table D18). More than one quarter of the nonresident Canadians reported incomes between $10,000 and $19,999 (Table D19) and almost half the non-Canadian nonresidents had incomes between $20,000 and $29,999 (Table D20).

Angler Fishing Effort and Harvest

Anglers fished a total of 323,067 angler-days in the East Central area in 1980 (Table D21). Resident anglers fished 301,305 angler-days, or 93% of the total.

Residents of the East Central area fished in all areas of Saskatchewan in 1980 (Table D22). They expended 104,645 angler-days in the East Central area and another 84,881 angler-days in the Tobin Lake area. Lesser amounts were spent in the remaining five areas.

About 85% of the angler-days expended by East Central residents occurred during the period May-September with 50% of it occurring during June and July (Table D23). About 10% of the angler-days occurred in the winter months December - March.

A total of 631,610 fish of the major species weighing 507,515 kg were taken by anglers who fished in the East Central area in 1980 (Tables D24 and D26). Resident anglers took 87% of the total number; the balance was taken by nonresident anglers, and 74% of it was taken by nonresident Canadians (Table D25). This area also provided 42% of the rainbow trout and 66% of the brook trout harvested in Saskatchewan (Table D24).

Pike, walleye and perch comprised 90% of the major species taken by all anglers who fished in the East Central area in 1980 (Table D24). Residents harvested more pike than walleye but nonresidents harvested more walleye than pike (Table D25). Resident anglers harvested 80% of the rainbow trout and 96% of the brook trout (Table D24).

TABLE D11. The average numbers of fish of the major species caught and retained per angler-day in the East Central area of Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	0.71	1.02	2.03	0.75
Perch	0.41	0.69	0.0	0.42
Walleye	0.52	1.20	3.77	0.60
Lake trout	0.03	0.01	0.0	0.03
Rainbow trout	0.06	0.25	0.0	0.07
Grayling	0.0	0.0	0.0	0.0
Goldeye	0.04	0.02	0.08	0.04
Brook trout	0.06	0.04	0.0	0.05
Major Species	**1.83**	**3.23**	**5.88**	**1.96**

TABLE D12. The average numbers of fish of the major species caught and retained during the season by resident and nonresident anglers over 15 years of age in the East Central area of Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	6.2	4.5	7.8	6.1
Perch	3.5	3.1	0.0	3.4
Walleye	4.6	5.3	14.5	4.9
Lake trout	0.3	*	0.0	0.3
Rainbow trout	0.5	1.1	0.0	0.6
Grayling	0.0	0.0	0.0	0.0
Goldeye	0.3	0.1	0.3	0.3
Brook trout	0.5	0.2	0.0	0.4
Major Species	**15.9**	**14.3**	**22.6**	**16.0**

* less than 0.01

Residents of the East Central area, and Saskatchewan residents as well as both groups of nonresident anglers who fished in the area in 1980 preferred walleye and pike (Tables D27-D30). Perch were third in preference for resident anglers but lake trout were third in preference for nonresident anglers.

On the average, anglers in the East Central area harvested about 2 fish/angler-day in 1980 (Table D11). Nonresident Canadians and non-Canadians took about 3.2 and 5.9 fish/angler-day, respectively, whereas resident anglers only took about 1.8 fish/angler-day. Nonresident anglers had significantly higher catch rates for walleye and pike.

On the average, each angler in the East Central area caught and retained 16 fish in 1980 (Table D12). Each non-Canadian angler retained 23 fish and each resident and nonresident Canadian angler retained 16 and 14 fish, respectively.

Angler Expenditures and Investments

In 1980, anglers spent a total of $4.5 million in the East Central area on activities directly associated with sportfishing (Table D31). Anglers who resided in the East Central area spent $3.7 million, or $108 per angler, on sportfishing in the province (Table D32) whereas Saskatchewan anglers who fished in the East Central area spent $3.8 million there, or $111 per angler (Table D33). Nonresident Canadians spent $0.4 million, or $113 per angler in the East Central area (Table D34); and non-Canadians spent about $0.2 million, or $198 per angler (Table D35).

Expenditures by all anglers in the East Central area represented 11% of the total spent on sportfishing in Saskatchewan in 1980 (Table D31). More than 85% of these expenditures were made by Saskatchewan anglers who fished in the East Central area (Table D33).

Travel costs and food were the major expenditures of all anglers who fished in the East Central area in 1980 (Table D31). Together they amounted to $2.5 million, or 55% of the total. Almost all of these expenditures, about $2.1 million, were made by Saskatchewan residents (Table D33). Residents of the East Central area spent $2.0 million on travel and food for their fishing in Saskatchewan (Table D32).

Fishing supplies represented a second major expenditure of all anglers in the East Central area (Table D31). Almost all of them were made by Saskatchewan residents fishing in the area (Table D33). Residents of the area spent $0.4 million on fishing supplies for their fishing in Saskatchewan (Table D32).

Lodging and boat costs were other major expenditures of equivalent importance for all anglers in the East Central area (Table D31). Together they amounted to $0.9 million and almost all of them were made by Saskatchewan residents (Table D33).

Anglers residing in the East Central area invested $2.4 million on major durables and property used in whole or in part for sportfishing in Saskatchewan in 1980 (Table D36). About $1.4 million of this, or 56%, was for sportfishing.

In 1980 a total of 6,838 boats, worth $14.7 million, were owned by anglers residing in the East Central area (Tables D37 and D38). Outboards comprised 69% of the number and 86% of the value.

Residents of the East Central area used their boats for a total of 149,686 days of recreation in 1980 (Table D39), of which 78,427, or 52%, were for sportfishing (Table D40). Outboards were used for 90% and canoes 5% of the fishing days.

QU'APPELLE

Angler Profile

A total of 32,613 anglers indicated they fished in the Qu'Appelle area of Saskatchewan in 1980, of which 29,663, or 91%, were Saskatchewan residents (Table D15). A total of 3,769 residents of the Qu'Appelle area

fished therein (Table D16); most Saskatchewan fishermen in the Qu'Appelle area were from the South. An estimated 2,202 Qu'Appelle residents fished in the North Central area and another 1,031 fished in the South. Of the nonresident anglers who fished in the Qu'Appelle area, 84% were Canadians (Table D15).

An estimated 9,222 residents of the Qu'Appelle area held angling licences in 1980 (Table D17). Of these, 7,263, or 79% actively fished in 1980. Fifty-seven percent of the 1980 Qu'Appelle anglers held licences in 1979 and 43% of them held licences in 1975.

The income profile of Saskatchewan anglers who fished in the Qu'Appelle area in 1980 was similar to that of the entire province (Table D18). About 25% of the nonresident Canadians reported incomes greater than $40,000 and about 52% of the nonresident non-Canadians reported incomes between $30,000 and $39,999.

Angler Fishing Effort and Harvest

Anglers fished a total of 323,488 angler-days in the Qu'Appelle area in 1980 (Table D21). Resident anglers fished 309,300 angler-days, or 96% of the total.

Residents of the Qu'Appelle area fished in all areas of Saskatchewan in 1980 (Table D22). They expended 44,991 angler-days, or 64% of their total in the Qu'Appelle area. Lesser amounts were spent in the other six areas.

TABLE D13. The average numbers of fish of the major species caught and retained per angler-day in the Qu'Appelle area of Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	0.45	1.40	1.25	0.49
Perch	0.71	0.23	0.0	0.69
Walleye	0.50	0.94	1.03	0.52
Lake trout	0.0	0.0	0.0	0.0
Rainbow trout	*	0.0	0.0	*
Grayling	0.0	0.0	0.0	0.0
Goldeye	0.0	0.0	0.0	0.0
Brook trout	0.0	0.0	0.0	0.0
Major Species	**1.66**	**2.57**	**2.28**	**1.70**

* less than 0.01

TABLE D14. The average numbers of fish of the major species caught and retained during the season by resident and nonresident anglers over 15 years of age in the Qu'Appelle area of Saskatchewan, 1980.

Species	Resident	Nonresident		Total
		Canadian	Other	
Pike	4.7	6.3	7.9	4.9
Perch	7.4	1.0	0.0	6.8
Walleye	5.3	4.2	6.5	5.2
Lake trout	0.0	0.0	0.0	0.0
Rainbow trout	0.1	0.0	0.0	0.1
Grayling	0.0	0.0	0.0	0.0
Goldeye	0.0	0.0	0.0	0.0
Brook trout	0.0	0.0	0.0	0.0
Major Species	**17.5**	**11.5**	**14.4**	**17.0**

About 89% of the angler-days expended by Qu'Appelle area residents occurred during the period May - September with about 65% of it occurring during June, July and August (Table D23). There were about 1,200 angler-days in each of remaining months except April and November.

A total of 552,616 fish of the major species weighing 363,852 kg were taken by anglers who fished in the Qu'Appelle area in 1980 (Tables D24 and D26). Resident anglers took 94% of the total number; the balance was taken by nonresident anglers, and 81% of it was taken by nonresident Canadians (Table D25).

Three species, perch, walleye and pike, comprised virtually all of the fish taken in the Qu'Appelle area in 1980 (Table D24). Rainbow trout were also harvested but comprised less than 1% of the total. Almost as many pike were taken as walleye but about 40% more perch were taken overall. Perch dominated the harvests of resident anglers but pike and walleye dominated the harvests of nonresident anglers.

Walleye and pike were the preferred species of resident and nonresident anglers (Tables D27 and D30). Perch were third in preference for Canadian anglers and fifth in preference for non-Canadian anglers.

On the average, anglers in the Qu'Appelle area harvested about 1.7 fish/angler-day in 1980 (Table D13). Nonresident Canadians and non-Canadians took about 2.6 and 2.3 fish/angler-day, respectively, whereas resident anglers took 1.7 fish/angler-day.

On the average, each angler in the Qu'Appelle area caught and retained 17 fish in 1980 (Table D14). Each resident angler retained about 18 fish, each nonresident Canadian about 12 fish, and each non-Canadian about 14 fish.

Angler Expenditures and Investments

In 1980, anglers spent a total of $4.4 million in the Qu'Appelle area on activities directly associated with sportfishing (Table D31). Anglers who resided in the Qu'Appelle area spent $1.2 million, or $42 per angler, on sportfishing in the province (Table D32) whereas Saskatchewan anglers who fished in the Qu'Appelle area spent $4.0 million, or $137 per

angler (Table D33). Nonresident Canadians spent $0.2 million, or $92 per angler in the Qu'Appelle area (Table D34); and non-Canadians spent about $0.09 million, or $188 per angler (Table D35).

Expenditures by all anglers in the Qu'Appelle area represented 10% of the total spent on sportfishing in Saskatchewan in 1980 (Table D31). Almost 93% of these expenditures were made by Saskatchewan anglers who fished in the Qu'Appelle area (Table D33).

Travel costs and food were the major expenditures of all anglers who fished in the Qu'Appelle area in 1980 (Table D31). Together they amounted to $2.3 million, or 53% of the total. Almost all of these expenditures, about $2.1 million, were made by Saskatchewan residents (Table D33). Residents of the Qu'Appelle area spent $0.6 million on travel and food for their fishing in Saskatchewan (Table D32).

Fishing supplies represented a second major expenditure of all anglers in the Qu'Appelle area in 1980 (Table D31). Almost all of them were made by Saskatchewan residents fishing in the area (Table D33). Residents of the area spent $0.1 million on fishing supplies for their fishing in Saskatchewan (Table D32).

Boat costs were a third major expenditure for all anglers in the Qu'Appelle area in 1980 (Table D31). Almost all of them were made by Saskatchewan residents fishing in the area (Table D33). Residents of the area spent $0.1 million on boat costs for their fishing in Saskatchewan (Table D32).

Anglers residing in the Qu'Appelle area invested $8.9 million on major durables and property used in whole or in part for sportfishing in Saskatchewan in 1980 (Table D36). Qu'Appelle area anglers invested more in these items and used them less for sportfishing, only 25%, than anglers in other areas of Saskatchewan.

In 1980, a total of 2,678 boats, worth $4.8 million, were owned by anglers living in the Qu'Appelle area (Tables D37 and D38). Outboards comprised 76% of the number and 70% of the value.

Residents of the Qu'Appelle area used their boats for a total of 61,691 angler-days of recreation in 1980 (Table D39), of which 16,837, or 27%, were for sportfishing (Table D40). Outboards were used for 62% and rowboats 38% of the fishing days.

TABLE D15. Numbers of anglers who indicated they fished in each area of Saskatchewan in 1980.

Area Fished	Resident	Nonresident		Total
		Canadian	Other	
North	11,221	1,633	3,721	16,575
North Central	38,712	9,264	12,778	60,754
West Central	45,292	7,082	487	52,861
South	32,736	4,170	931	37,837
Tobin Lake	23,254	1,782	790	25,826
East Central	34,631	4,112	902	39,645
Qu'Appelle	29,663	2,492	458	32,613
TOTAL	**215,509**	**30,535**	**20,067**	**266,111**
Mean number of areas fished per angler	1.6	1.1	1.0	1.5

TABLE 016. Numbers of resident anglers who indicated they fished in each area of Saskatchewan in 1980.

Area Fished	Area of Residence							Total*
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
North	**1,920**	982	1,993	5,058	0	1,174	94	11,221
North Central	1,474	**4,539**	10,535	14,741	655	4,567	2,202	38,712
West Central	327	3,111	**26,040**	11,754	327	3,049	683	45,292
South	610	1,310	3,094	**25,399**	282	1,011	1,031	32,736
Tobin Lake	327	491	3,066	11,235	**1,874**	5,651	610	23,254
East Central	655	1,637	7,960	12,503	491	**10,800**	585	34,631
Qu'Appelle	2,128	0	2,083	20,389	119	1,174	**3,769**	29,663
TOTAL	**7,441**	**12,070**	**54,771**	**101,079**	**3,748**	**27,426**	**8,974**	**215,509**

* The total of this column, 215,509, exceeds the number of active resident anglers because many anglers fished in more than one area.

TABLE D17. Numbers and proportions of 1980 active resident anglers from each area who held Saskatchewan angling licences in the previous five years.

	Area of Residence							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'appelle	
No. of licences issued in 1980	8,517	8,051	44,049	71,405	3,139	22,458	9,222	166,843
No. who fished in 1980	6,131	7,486	36,812	55,831	2,811	17,524	7,263	133,846
% active	72.0	93.0	83.6	78.2	89.6	78.0	78.8	80.2
No. of 1980 anglers who fished in 1979	4,212	5,849	28,922	42,814	2,811	13,984	5,271	104,853
% of 1980	49.4	72.6	65.7	60.0	89.6	62.3	57.2	62.2
No. of 1980 anglers who fished in 1978	3,274	5,358	28,030	40,783	2,811	13,211	5,271	98,731
% of 1980	38.4	66.6	63.6	57.1	89.6	58.8	57.2	59.2
No. of 1980 anglers who fished in 1977	3,111	3,884	25,738	36,028	2,202	12,319	4,616	87,891
% of 1980	36.5	48.2	58.4	50.5	70.2	54.8	50.0	52.7
No. of 1980 anglers who fished in 1976	3,111	3,602	22,763	32,282	2,202	11,427	4,452	79,834
% of 1980	36.5	44.7	51.7	45.2	70.2	50.9	48.3	47.8
No. of 1980 anglers who fished in 1975	2,783	2,947	21,662	30,199	2,202	11,054	4,006	74,851
% of 1980	32.7	36.6	49.2	42.3	70.2	49.2	43.4	44.9

TABLE D18. Household income profile of resident anglers of each area of Saskatchewan, 1980.

Income Bracket	Area Fished							All Residents
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
	%	%	%	%	%	%	%	%
Less than $10,000	14.5	10.8	15.9	18.2	18.0	15.9	7.6	15.6
$10,000 - $19,999	23.3	23.7	25.1	26.1	28.0	33.0	26.4	27.3
$20,000 - $29,999	36.4	31.4	33.8	30.1	36.4	27.1	32.8	30.8
$30,000 - $39,999	10.8	18.8	13.4	17.4	12.5	13.0	20.7	14.7
Greater than $40,000	15.0	15.3	11.8	8.2	5.1	11.0	12.5	11.6

TABLE D19. Household income profile of nonresident Canadian anglers who fished in each area of Saskatchewan in 1980.

Income Bracket	Area Fished							All Nonresident Canadians
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
	%	%	%	%	%	%	%	%
Less than $10,000	0.0	6.4	5.7	5.5	0.0	0.0	7.5	4.5
$10,000 - $19,999	13.3	13.3	17.3	12.0	0.0	26.6	23.7	12.3
$20,000 - $29,999	40.0	34.7	54.0	59.9	69.2	28.7	32.3	29.4
$30,000 - $39,999	20.0	30.0	10.5	22.6	15.4	29.8	11.3	43.6
Greater than $40,000	26.7	15.6	12.5	0.0	15.4	14.9	25.2	10.2

TABLE D20. Household income profile of nonresident non-Canadian anglers who fished each area of Saskatchewan in 1980.

Income Bracket	Area Fished							All Nonresident Non-Canadians
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
	%	%	%	%	%	%	%	%
Less than $10,000	2.6	1.3	0.0	0.0	6.8	6.6	0.0	1.8
$10,000 - $19,999	8.8	18.7	43.9	17.4	0.0	15.5	7.1	15.6
$20,000 - $29,999	26.5	30.9	41.3	14.9	41.8	47.0	40.8	32.3
$30,000 - $39,999	13.2	26.1	14.8	41.2	24.3	20.6	52.1	22.2
Greater than $40,000	48.9	23.0	0.0	26.5	27.1	10.3	0.0	28.1

TABLE 021. Numbers of angler-days expended by anglers in each area of Saskatchewan, 1980.

Area Fished	Resident	Nonresident		Total
		Canadian	Other	
North	77,441	9,645	18,506	105,592
North Central	252,820	66,476	80,871	400,167
West Central	339,965	38,060	4,648	382,673
South	304,293	23,691	6,335	334,319
Tobin Lake	193,252	5,129	3,998	202,379
East Central	301,305	18,289	3,473	323,067
Qu'Appelle	309,300	11,287	2,901	323,488
TOTAL	**1,778,376**	**172,577**	**120,732**	**2,071,685**

TABLE D22. Fishing effort, expressed as angler-days, expended by resident anglers from each area of Saskatchewan in each area in 1980.

Area of Residence	Area Fished							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
North	**50,483**	8,689	1,534	3,440	511	4,600	23,062	92,319
North Central	3,035	**49,448**	16,574	9,637	1,633	15,697	0	96,024
West Central	8,946	81,884	**238,473**	10,652	20,058	83,563	8,246	451,822
South	9,423	73,271	58,848	**260,298**	61,588	85,313	229,147	777,888
Tobin Lake	0	2,462	2,627	5,161	**22,629**	4,104	119	37,102
East Central	5,266	29,087	18,133	7,687	84,881	**104,645**	3,735	253,434
Qu'Appelle	288	7,979	3,776	7,418	1,952	3,383	**44,991**	69,787
TOTAL	**77,441**	**252,820**	**339,965**	**304,293**	**193,252**	**301,305**	**309,300**	**1,778,376**

TABLE D23. Numbers of angler-days expended by resident anglers of each area of Saskatchewan in each month, 1980.

Month	Area of Residence							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'appelle	
Jan.	867	2,787	7,828	28,180	164	7,092	1,591	48,509
Feb.	704	2,291	9,224	23,219	543	5,243	1,193	42,417
Mar.	1,203	2,619	16,194	17,896	164	7,735	1,169	46,980
Apr.	33	982	6,240	14,145	164	4,564	934	27,062
May	5,325	14,153	41,565	73,348	5,159	22,937	9,566	172,053
June	18,647	20,194	76,267	137,518	7,717	53,161	14,334	327,838
July	30,758	22,102	134,375	217,108	10,694	72,335	17,804	505,176
Aug.	26,898	17,222	95,286	136,061	6,401	45,624	13,272	340,764
Sept.	6,432	9,355	37,290	67,055	2,600	20,356	7,255	150,343
Oct.	553	1,801	12,330	26,658	847	7,915	1,068	51,172
Nov.	350	818	4,990	10,233	1,310	818	491	19,010
Dec.	549	1,700	10,233	26,467	1,339	5,654	1,110	47,052
TOTAL	**92,319**	**96,024**	**451,822**	**777,888**	**37,102**	**253,434**	**69,787**	**1,778,376**

TABLE D24. Numbers of fish of the major species caught and retained by anglers in each area of Saskatchewan, 1980.

Angler Category / Species	Area Fished							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
Resident								
Pike	49,891	359,438	465,371	184,171	120,442	215,077	139,461	1,533,851
Perch	0	153,657	317,298	563,310	95,627	122,927	219,339	1,472,158
Walleye	25,573	326,964	176,583	52,692	262,594	157,819	156,077	1,158,302
Lake trout	48,623	21,935	1,185	395	11,264	10,045	0	93,447
Rainbow trout	1,073	10,019	2,146	715	6,799	18,608	2,146	41,506
Grayling	3,849	0	0	0	0	0	0	3,849
Goldeye	0	274	1,092	11,200	17,748	10,654	0	40,968
Brook trout	0	4,061	119	2,339	1,934	16,825	0	25,278
Major Species	**129,009**	**876,348**	**963,794**	**814,822**	**516,408**	**551,955**	**517,023**	**4,369,359**
Nonresident[a]								
Pike	38,985	228,536	48,545	19,877	7,882	25,786	19,428	389,039
Perch	0	17,248	24,094	102,423	3,275	12,676	2,599	162,315
Walleye	27,074	294,179	35,161	21,041	18,529	35,062	13,566	444,612
Lake trout	29,726	21,214	166	0	0	166	0	51,272
Rainbow trout	433	1,158	0	6,663	0	4,488	0	12,742
Grayling	4,325	372	0	0	0	0	0	4,697
Goldeye	148	0	0	0	427	735	0	1,310
Brook trout	0	594	0	0	0	742	0	1,336
Major Species	**100,691**	**563,301**	**107,966**	**150,004**	**30,113**	**79,655**	**35,593**	**1,067,323**
All Anglers								
Pike	88,876	587,974	513,916	204,048	128,324	240,863	158,889	1,922,890
Perch	0	170,905	341,392	665,733	98,902	135,603	221,938	1,634,473
Walleye	,647	621,143	211,744	73,733	281,123	192,881	169,643	1,602,914
Lake trout	78,349	43,149	1,351	395	11,264	10,211	0	144,719
Rainbow trout	1,506	11,177	2,146	7,378	6,799	23,096	2,146	54,248
Grayling	8,174	372	0	0	0	0	0	8,546
Goldeye	148	274	1,092	11,200	18,175	11,389	0	42,278
Brook trout	0	4,655	119	2,339	1,934	17,567	0	26,614
Major Species	**229,700**	**1,439,649**	**1,071,760**	**964,826**	**546,521**	**631,610**	**552,616**	**5,436,682**

[a] See Table D25 for a breakdown by nonresident Canadian and nonresident non-Canadian anglers.

TABLE D25. Numbers of fish of the major species caught and retained by nonresident anglers in each area of Saskatchewan, 1980.

Angler Category / Species	Area Fished							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
Nonresident -- Canadian								
Pike	1,607	68,293	42,402	11,374	4,338	18,703	15,789	162,506
Perch	0	8,827	23,074	58,846	2,322	12,676	2,599	108,344
Walleye	481	104,506	31,766	12,033	12,514	21,979	10,588	193,867
Lake trout	7,674	4,170	166	0	0	166	0	12,176
Rainbow trout	433	1,158	0	5,503	0	4,488	0	11,582
Grayling	891	0	0	0	0	0	0	891
Goldeye	148	0	0	0	0	446	0	594
Brook trout	0	594	0	0	0	742	0	1,336
Major Species	**11,234**	**187,548**	**97,408**	**87,756**	**19,174**	**59,200**	**28,976**	**491,296**
Nonresident -- Non-Canadian								
Pike	37,378	160,243	6,143	8,503	3,544	7,083	3,639	226,533
Perch	0	8,421	1,020	43,577	953	0	0	53,971
Walleye	26,593	189,673	3,395	9,008	6,015	13,083	2,978	250,745
Lake trout	22,052	17,044	0	0	0	0	0	39,096
Rainbow trout	0	0	0	1,160	0	0	0	1,160
Grayling	3,434	372	0	0	0	0	0	3,806
Goldeye	0	0	0	0	427	289	0	716
Brook trout	0	0	0	0	0	0	0	0
Major Species	**89,457**	**375,753**	**10,558**	**62,248**	**10,939**	**20,455**	**6,617**	**576,027**
All Nonresidents								
Pike	38,985	228,536	48,545	19,877	7,882	25,786	19,428	389,039
Perch	0	17,248	24,094	102,423	3,275	12,676	2,599	162,315
Walleye	27,074	294,179	35,161	21,041	18,529	35,062	13,566	444,612
Lake trout	29,726	21,214	166	0	0	166	0	51,272
Rainbow trout	433	1,158	0	6,663	0	4,488	0	12,742
Grayling	4,325	372	0	0	0	0	0	4,697
Goldeye	148	0	0	0	427	735	0	1,310
Brook trout	0	594	0	0	0	742	0	1,336
Major Species	**100,691**	**563,301**	**107,966**	**150,004**	**30,113**	**79,655**	**35,593**	**1,067,323**

TABLE 026. Estimated weight of fish of the major species retained by anglers in each area of Saskatchewan, 1980.

Angler Category / Species	Area Fished							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
	kg	kg	kg	kg	kg	kg	kg	kg
Resident								
Pike	102,514	738,559	485,501	192,137	125,653	224,381	145,494	2,014,239
Perch	0	34,151	70,522	125,201	21,254	27,322	48,750	327,200
Walleye	27,955	357,422	152,183	45,411	226,309	136,011	134,511	1,079,802
Lake trout	95,718	43,181	2,333	778	22,174	19,774	0	183,958
Rainbow trout	1,280	11,951	2,560	853	8,111	22,199	2,560	49,514
Grayling	2,112	0	0	0	0	0	0	2,112
Goldeye	0	93	371	3,810	6,038	3,625	0	13,937
Brook trout	0	1,927	57	1,110	918	7,985	0	11,997
Major Species	**229,579**	**1,187,284**	**713,527**	**369,300**	**410,457**	**441,297**	**331,315**	**3,682,759**
Nonresident								
Pike	80,105	469,588	50,645	20,737	8,223	26,901	20,268	676,467
Perch	0	3,834	5,355	22,764	728	2,817	578	36,076
Walleye	29,596	321,582	30,302	18,134	15,969	30,217	11,691	457,491
Lake trout	58,518	41,761	327	0	0	327	0	100,933
Rainbow trout	516	1,383	0	7,948	0	5,354	0	15,201
Grayling	2,374	204	0	0	0	0	0	2,578
Goldeye	50	0	0	0	146	250	0	446
Brook trout	0	282	0	0	0	352	0	634
Major Species	**171,159**	**838,634**	**86,629**	**69,583**	**25,066**	**66,218**	**32,537**	**1,289,826**
All Anglers								
Pike	182,619	1,208,147	536,146	212,874	133,876	251,282	165,762	2,690,706
Perch	0	37,985	75,877	147,965	21,982	30,139	49,328	363,276
Walleye	57,551	679,004	182,485	63,545	242,278	166,228	146,202	1,537,293
Lake trout	154,236	84,942	2,660	778	22,174	20,101	0	284,891
Rainbow trout	1,796	13,334	2,560	8,801	8,111	27,553	2,560	64,715
Grayling	4,486	204	0	0	0	0	0	4,690
Goldeye	50	93	371	3,810	6,184	3,875	0	14,383
Brook trout	0	2,209	57	1,110	918	8,337	0	12,631
Major Species	**400,738**	**2,025,918**	**800,156**	**438,883**	**435,523**	**507,515**	**363,852**	**4,972,585**

TABLE D27. Species preferred by resident anglers by area of residence in Saskatchewan, 1980.

AREA OF RESIDENCE							
North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	All
Walleye	Walleye	Walleye	Walleye	Walleye	Walleye	Walleye	Walleye
Northern Pike	Northern Pike	Northern Pike	Northern Pike	Northern Pike	Northern Pike	Northern Pike	Northern Pike
Trout - General	Trout - General	Perch	Perch	Trout - General	Perch	Perch	Perch
Perch	Lake trout	Rainbow trout	Trout - General	Perch	Trout - General	Rainbow trout	Trout - General
Lake trout	Perch	Trout - General	Lake trout	Brook trout	Lake trout	Trout - General	Lake trout
Rainbow trout	Rainbow trout	Lake trout	Rainbow trout	Rainbow trout	Rainbow trout	Lake trout	Rainbow trout
Grayling	Grayling	Brook trout	Brook trout	Kokanee	Brook trout	Bass - General	Brook trout
Lake Whitefish	Brook trout	Splake	Goldeye	Multiple Species	Lake Whitefish	Splake	Lake Whitefish
Arctic Char	Lake Whitefish	Lake Whitefish	Splake	Lake Whitefish	Multiple Species	Brook trout	Splake
Brook trout	Goldeye	Goldeye	Multiple Species		Burbot	Brown trout	Goldeye

TABLE 088. Species preferred by resident anglers by area fished in Saskatchewan, 1980.

AREA FISHED							
North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	All
Walleye	Walleye	Walleye	Walleye	Walleye	Walleye	Walleye	Walleye
Northern Pike	Northern Pike	Northern Pike	Northern Pike	Northern Pike	Northern Pike	Northern Pike	Northern Pike
Lake trout	Perch	Perch	Perch	Perch	Perch	Perch	Perch
Perch	Trout - General	Trout - General	Trout - General	Trout - General	Trout - General	Trout - General	Trout - General
Rainbow trout	Lake trout	Rainbow trout	Lake trout	Lake trout	Rainbow trout	Rainbow trout	Lake trout
Trout - General	Rainbow trout	Lake trout	Rainbow trout	Rainbow trout	Lake trout	Lake trout	Rainbow trout
Grayling	Brook trout	Brook trout	Goldeye	Brook trout	Brook trout	Brook trout	Brook trout
Brook trout	Grayling	Lake Whitefish	Brook trout	Multiple Species	Lake Whitefish	Grayling	Lake Whitefish
Lake Whitefish	Multiple Species	Splake	Splake	Splake	Multiple Species	Kokanee	Splake
Arctic Char	Goldeye	Goldeye	Kokanee	Lake Whitefish	Goldeye	Brown trout	Grayling

TABLE 029. Species preferred by nonresident Canadian anglers in each area fished in Saskatchewan, 1980.

AREA FISHED							
North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	Total
Lake trout	Walleye	Walleye	Walleye	Walleye	Walleye	Walleye	Walleye
Northern Pike	Northern Pike	Northern Pike	Perch	Northern Pike	Northern Pike	Northern Pike	Northern Pike
Walleye	Rainbow trout	Lake trout	Northern Pike	Lake trout	Lake trout	Perch	Perch
Grayling	Lake trout	Perch	Rainbow trout	Perch	Perch	Rainbow trout	Rainbow trout
Rainbow trout	Perch	Rainbow trout	Trout - General	Trout - General	Trout - General	Trout - General	Lake Trout

TABLE D30. Species preferred by nonresident non-Canadian anglers in each area fished in Saskatchewan, 1980.

AREA FISHED							
North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	Total
Northern Pike	Northern Pike	Walleye	Walleye	Walleye	Walleye	Walleye	Walleye
Lake trout	Walleye	Northern Pike	Northern Pike	Northern Pike	Northern Pike	Northern Pike	Walleye
Walleye	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Trout - General	Lake trout
Grayling	Trout - General	Perch	Rainbow trout	Trout - General	Perch	Lake trout	Trout - General
Trout - General	Perch	Trout - General	Perch	. . .	Trout - General	Perch	Grayling

TABLE D31. Direct expenditures by all active anglers in each area of Saskatchewan in 1980.

Expenditure Category	Area Fished							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
	$	$	$	$	$	$	$	$
Travel costs	750,522	2,950,272	2,069,630	1,140,845	900,483	1,317,068	1,326,558	10,455,378
Food	486,929	2,588,696	1,904,411	854,542	639,168	1,171,226	989,674	8,634,646
Package deals	2,294,149	2,821,611	90,173	46,492	116,895	332	0	5,369,652
Fishing supplies	288,450	988,153	841,755	536,758	350,668	538,584	571,768	4,116,136
Lodging	429,418	1,691,320	679,041	196,844	207,700	453,604	349,073	4,007,000
Household boat costs	89,460	763,414	684,247	290,878	200,284	467,615	502,631	2,998,529
Boat rental	69,391	742,529	244,736	121,434	138,474	177,456	186,691	1,680,711
Campsite fees	16,928	383,877	349,004	203,333	123,656	139,169	260,295	1,476,262
Fishing licences	71,335	363,916	192,471	140,480	80,745	161,348	108,166	1,118,461
Bait	14,445	78,119	57,450	72,865	35,637	52,111	52,903	363,530
Guide services	101,557	206,359	1,860	4,678	1,072	4,047	2,443	322,016
Other	104,753	899,472	152,852	109,353	41,358	14,102	16,930	1,338,820
Totals	**4,717,337**	**14,477,738**	**7,267,630**	**3,718,502**	**2,836,140**	**4,496,662**	**4,367,132**	**41,881,141**
Average/angler	**284.61**	**238.30**	**137.49**	**98.28**	**109.82**	**113.42**	**133.91**	**157.38**
Average/angler-day	**44.68**	**36.18**	**18.99**	**11.12**	**14.01**	**13.92**	**13.50**	**20.22**

TABLE D32. Direct expenditures by active resident anglers by their areas of residence in Saskatchewan in 1980.

Expenditure Category	Area of Residence							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
	$	$	$	$	$	$	$	$
Travel costs	654,058	447,150	2,012,499	3,353,874	175,918	1,170,373	376,739	8,190,611
Food	358,717	369,631	1,776,129	2,641,267	102,445	874,706	274,561	6,397,456
Package deals	67,945	303,572	93,334	261,435	0	137,119	0	863,405
Fishing supplies	160,292	229,713	884,597	1,543,778	49,980	423,404	165,672	3,457,436
Lodging	136,499	65,913	470,333	1,019,467	14,776	371,848	129,002	2,207,838
Household boat costs	170,090	142,099	798,287	933,790	34,723	413,023	141,551	2,633,563
Boat rentals	91,533	97,020	226,666	527,632	22,499	114,642	57,826	1,137,818
Campsite fees	32,698	71,403	312,931	547,610	11,693	114,536	46,702	1,137,573
Fishing licences	36,671	55,560	208,429	304,070	9,406	88,515	44,084	746,735
Bait	12,256	5,875	55,917	159,223	11,519	23,454	8,672	276,916
Guide services	16,933	12,783	10,229	35,576	189	3,643	609	79,962
Other	24,559	955	202,609	169,127	0	7,112	5,457	409,819
Total	**1,762,251**	**1,801,674**	**7,051,960**	**11,496,849**	**433,148**	**3,742,375**	**1,250,875**	**27,539,132**
Average/angler	**157.05**	**46.54**	**155.70**	**351.20**	**18.63**	**108.06**	**42.17**	**127.79**

TABLE D33. Direct expenditures by active resident anglers in the areas in which they fished in Saskatchewan in 1980.

Expenditure Category	Area Fished							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
	$	$	$	$	$	$	$	$
Travel costs	359,973	1,893,366	1,786,462	924,899	808,552	1,182,751	1,234,608	8,190,611
Food	261,988	1,527,900	1,505,590	653,510	573,079	964,216	911,173	6,397,456
Package deals	596,717	266,688	0	0	0	0	0	863,405
Fishing supplies	206,263	662,103	740,126	488,666	338,562	483,024	538,692	3,457,436
Lodging	97,054	632,359	507,663	137,217	185,562	315,605	332,378	2,207,838
Household boat costs	72,994	568,897	618,483	243,594	195,578	453,145	480,872	2,633,563
Boat rental	4,650	418,663	202,506	89,591	119,154	147,480	155,774	1,137,818
Campsite fees	5,895	203,536	281,489	178,489	112,829	120,801	234,534	1,137,573
Fishing licences	25,549	154,561	160,245	111,195	70,081	130,074	95,030	746,735
Bait	7,038	43,536	40,792	62,473	31,370	42,537	49,170	276,916
Guide services	10,564	64,384	1,418	1,041	481	855	1,219	79,962
Other	69	131,097	152,852	87,165	7,604	14,102	16,930	409,819
Total	**1,648,754**	**6,567,090**	**5,997,626**	**2,977,840**	**2,442,852**	**3,854,590**	**4,050,380**	**27,539,132**
Average/angler	**146.93**	**169.64**	**132.42**	**90.97**	**105.05**	**111.30**	**136.55**	**127.79**
Average/angler-day	**21.29**	**25.98**	**17.64**	**9.79**	**12.63**	**12.79**	**13.10**	**15.49**

TABLE 034. Direct expenditures by active nonresident Canadian anglers in each area of Saskatchewan in 1980.

Expenditure Category	Area Fished							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
	$	$	$	$	$	$	$	$
Travel costs	37,930	337,131	251,907	145,094	49,468	106,081	68,856	996,467
Food	70,975	375,688	348,861	137,994	40,760	140,750	62,317	1,177,345
Package deals	156,621	394,204	23,756	0	0	0	0	574,581
Fishing supplies	16,525	117,415	96,766	36,265	6,481	37,306	27,961	338,719
Lodging	93,995	192,856	157,747	28,697	8,644	110,426	5,937	598,302
Household boat costs	6,299	59,384	60,767	20,744	3,528	10,475	21,204	182,401
Boat rental	41,276	79,570	31,986	22,362	10,439	20,587	12,257	218,477
Campsite fees	7,327	66,488	55,294	20,532	1,929	5,488	18,109	175,167
Fishing licences	8,081	50,878	29,073	23,692	5,405	23,270	10,792	151,191
Bait	1,834	7,962	13,949	6,929	3,212	7,266	2,529	43,681
Guide services	13,290	8,189	176	3,253	58	1,998	558	27,522
Other	0	59,396	0	0	0	0	0	59,396
Total	**454,153**	**1,749,161**	**1,070,282**	**445,562**	**129,924**	**463,647**	**230,520**	**4,543,249**
Average/angler	**278.11**	**188.81**	**151.13**	**106.85**	**72.91**	**112.75**	**92.50**	**148.79**
Average/angler-day	**47.09**	**26.31**	**28.12**	**18.81**	**25.33**	**25.35**	**20.42**	**26.33**

TABLE 035. Direct expenditures by active nonresident non-Canadian anglers in each area of Saskatchewan in 1980.

Expenditure Category	Area Fished							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
	$	$	$	$	$	$	$	$
Travel costs	352,619	719,775	31,261	70,852	42,463	28,236	23,094	1,268,300
Food	153,966	685,108	49,960	63,038	25,329	66,260	16,184	1,059,845
Package deals	1,540,811	2,160,719	66,417	46,492	116,895	332	0	3,931,666
Fishing supplies	65,662	208,635	4,863	11,827	5,625	18,254	5,115	319,981
Lodging	238,369	866,105	13,631	30,930	13,494	27,573	10,758	1,200,860
Household boat costs	10,167	135,133	4,997	26,540	1,178	3,995	555	182,565
Boat rental	23,465	244,296	10,244	9,481	8,881	9,389	18,660	324,416
Campsite fees	3,706	113,853	12,221	4,312	8,898	12,880	7,652	163,522
Fishing licences	37,705	158,477	3,153	5,593	5,259	8,004	2,344	220,535
Bait	5,573	26,621	2,709	3,463	1,055	2,308	1,204	42,933
Guide services	77,703	133,786	266	384	533	1,194	666	214,532
Other	104,684	708,979	0	22,188	33,754	0	0	869,605
Total	**2,614,430**	**6,161,487**	**199,722**	**295,100**	**263,364**	**178,425**	**86,232**	**9,798,760**
Average/angler	**702.61**	**482.19**	**410.11**	**316.97**	**333.37**	**197.81**	**188.28**	**488.30**
Average/angler-day	**141.27**	**76.19**	**42.97**	**46.58**	**65.87**	**51.37**	**29.72**	**81.16**

TABLE D36. Major angler purchases and investments attributable in whole or in part to angling within each fishing area of Saskatchewan in 1980.

Area of Residence	Major Purchases	Investments for Fishing	Proportion for Fishing
	$	$	%
North	1,051,093	870,010	82.7
North Central	5,912,313	2,567,298	43.4
West Central	6,632,206	3,247,690	49.0
South	3,236,538	2,057,655	63.6
Tobin Lake	7,499,297	5,035,754	67.1
East Central	2,446,413	1,378,617	56.4
Qu'Appelle	8,968,308	2,258,583	25.2
Resident Total	**35,746,168**	**17,415,607**	**48.7**
Canadian Nonresident	262,845	105,133	40.0
Other Nonresident	12,899	7,519	58.3
All Anglers - Total	**36,021,912**	**17,528,259**	**49.0**

TABLE 037. Numbers and types of boats owned by resident anglers in each area of Saskatchewan, 1980.

Boat Type	Area of Residence							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
Canoes	1,228	327	4,836	3,824	409	982	148	11,754
Rowboats	282	82	491	688	0	610	218	2,371
Outboards	1,719	1,091	10,579	15,575	532	4,727	2,029	36,252
Sailboats	287	0	327	314	0	0	0	928
Inboard-Outboards	327	82	460	723	82	191	164	2,029
Inboards	33	0	218	245	0	82	0	578
Houseboats	0	0	82	82	0	0	0	164
Others	0	164	565	1,023	0	246	119	2,117
Total	**3,876**	**1,746**	**17,558**	**22,474**	**1,023**	**6,838**	**2,678**	**56,193**

TABLE D38. 1980 market value of boats owned by resident anglers of each area of Saskatchewan, 1980.

Boat Type	Area of Residence							Total Value
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
	$	$	$	$	$	$	$	$
Canoes	730,946	171,910	2,633,504	2,892,319	233,307	495,265	69,458	7,226,709
Rowboats	127,870	32,745	191,688	262,318	0	223,759	65,337	903,717
Outboards	4,719,343	4,396,162	23,902,309	34,042,602	1,186,999	12,647,087	3,358,629	84,253,131
Sailboats	349,960	0	638,523	904,575	0	0	0	1,893,058
Inboard-Outboards	2,987,962	1,227,930	3,453,625	4,502,080	695,827	758,588	1,064,206	14,690,218
Inboards	916,854	0	1,828,251	1,864,820	0	245,586	0	4,855,511
Houseboats	0	0	1,227,930	491,171	0	0	0	1,719,101
Others	0	128,933	647,805	2,918,194	0	365,831	241,165	4,301,928
Total	9,832,935	5,957,680	34,523,635	47,878,079	2,116,133	14,736,116	4,798,795	119,843,373

TABLE D39. Number of days of recreation used by boats owned by resident anglers of each area of Saskatchewan, 1980.

Boat Type	Area of Residence							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
Canoes	20,596	3,193	76,890	60,008	1,555	15,308	0	177,550
Rowboats	3,556	819	14,244	5,976	0	5,273	12,006	41,874
Outboards	45,843	24,564	192,658	324,935	9,169	120,417	37,918	755,504
Sailboats	3,397	0	6,205	4,502	0	0	0	14,104
Inboard-Outboards	5,567	1,637	10,987	28,030	491	2,729	9,823	59,264
Inboards	1,474	0	28,925	2,374	0	1,637	0	34,410
Houseboats	0	0	164	2,865	0	0	0	3,029
Others	0	4,093	10,201	13,890	0	4,322	1,944	34,450
Total	**80,433**	**34,306**	**340,274**	**442,580**	**11,215**	**149,686**	**61,691**	**1,120,185**

TABLE D40. Number of fishing days used by boats owned by resident anglers of each area of Saskatchewan, 1980.

Boat Type	Area of Residence							Total
	North	North Central	West Central	South	Tobin Lake	East Central	Qu'Appelle	
Canoes	8,432	2,456	30,384	21,104	327	4,175	0	66,878
Rowboats	3,556	409	8,186	5,567	0	655	6,331	24,704
Outboards	16,918	16,100	79,509	171,999	3,193	70,732	10,506	368,957
Sailboats	1,432	0	164	246	0	0	0	1,842
Inboard-Outboards	1,637	819	1,915	2,456	246	1,883	0	8,956
Inboards	0	0	1,693	1,555	0	982	0	4,230
Houseboats	0	0	164	2,864	0	0	0	3,028
Others	0	2,947	4,880	7,181	0	0	0	15,008
Total	**31,975**	**22,731**	**126,895**	**212,972**	**3,766**	**78,427**	**16,837**	**493,603**

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